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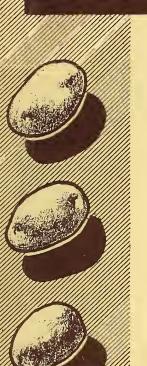


A289.22 M34 RESERVE

MOVEMENTS, FREIGHT RATES, and PRICES OF

POTATOES

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RECENT TRENDS FOR NINE MAJOR MARKETS



UNITED STATES DEPARTMENT OF AGRICULTURE

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MOVEMENTS, FREIGHT RATES, AND PRICES OF POTATOES

Recent Trends for Nine Major Markets

By James R. Snitzler, Transportation Economist 1/

822003

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Since the end of World War II, marketing charges on farm products have risen steadily. In contrast, prices received by farmers for their products have fluctuated, with periodsof declines in price exceeding those of increases in price. Increases in price occurred in 3 years, January 1946 - January 1948, and (after the start of the War in Korea) February 1950 to February 1951. On the other hand, declines in price occurred in the remaining $4\frac{1}{2}$ years -- January 1948 to February 1950, and February 1951 through the first 6 months of 1953.

^{1/} This study was made under authority of the Agricultural Marketing Act of 1946 (RMA, Title II). Mildred DeWolfe and others assisted in the statistical analysis.

Although freight rates are only a part of the total marketing charges (approximately 12 percent for foods in the market basket in 1950 and 1951), they are much more important for a relatively low-valued commodity, such as potatoes, than for most other fruits and vegetables.

Because of the rigidity in railroad freight rates relative to agricultural prices, the transportation problems of the farmer are greater during periods of depressed agricultural prices.

With the postwar price behavior of potatoes generally approximating that of all agricultural products, a study of the trends in freight rates and prices of potatoes during this period of fluctuating prices provides a useful analysis not only for the potato industry but also for agriculture in general.

SUMMARY

Although the specialized producing areas tend to dominate the nine large markets included in the study upon which this report is based, substantial shifting has occurred among these areas in the postwar period. Since 1946, Maine has lost ground in the Atlanta market, but has gained in New York City and has maintained its dominance in Boston and Cleveland. During the same period, Idaho improved its position in New Orleans, although it has been losing out in Chicago and St. Louis, largely to the Red River Valley area of Minnesota-North Dakota. California continued to be the major supplier in San Francisco and Los Angeles, although Washington made some gains in the San Francisco market, as Idaho and Oregon did in Los Angeles.

Between 1940 and 1952 (excluding 1941-45) in 5 of the 7 cities for which complete data are available, truck unloads of potatoes accounted for a generally increasing percentage of total unloads.

The greatest gains in truck traffic during this period occurred in Boston, San Francisco, and Ios Angeles. In New York and St. Iouis, trucks lost ground to the railroads. St. Iouis now ranks with Chicago as an overwhelmingly rail city in comparative percentages of rail and truck unloads of potatoes. Data for unloads in Atlanta indicate that trucks regained their prewar position of dominance in that market.

In the <u>postwar period</u>, 7 of the 9 cities represented in the study showed an increasing percentage of truck unloads. In 1952, for example, there were four major movements in which trucks hauled more than 96 percent of the potatoes moving to market, whereas in 1946 they hauled less than 30 percent.

While the flexibility, speed, and convenience (pickup and delivery service) of trucks were undoubtedly important factors in this trend, it is widely believed that increases in rail freight rates also played an important part.

Railroad freight rates on potatoes for nine major markets increased 62 percent between the beginning of 1946 and June 1953. This percentage increase for the nine markets closely approximates that for the country as a whole. During 1946-52, the rate increase on potatoes for the entire country equaled 61 percent, as computed by the Bureau of Agricultural Economics.

Increases in railroad freight rates on potatoes for the nine markets in the postwar period ranged from 44 to 67 percent. St. Louis, Chicago, and Atlanta incurred the greatest percentage increases; Boston, New York and Cleveland the smallest.

Variations in the rate increases among the several cities may be explained by (1) differences in degree of competition with trucks, (2) regional differences in the percentage increases in certain of the several rate-level cases, and (3) variations in the application of specific maxima — "holddowns" in trade parlance — to these rate increases. An example of rate variance was the rate increase of only 1/4 percent for Boston as compared to 59 percent for the two next lowest cities, New York and Cleveland. The difference was primarily due to the lower rail freight rate maintained on Maine to Boston shipments as a means of countering truck competition.

The use of holddowns -- applying specific maxima to the percentage rate increases on a limited number of farm products -- has kept the rate increase on potatoes below that on all farm products, (62 percent for the nine markets or 61 percent for the country as a whole, compared to 70 percent for all farm products). But the rate increase on potatoes has been substantially above that on all fruits and vegetables.

The larger rate increase for potatoes (61 percent) as compared to that for all fruits and vegetables (45 percent) was due to (1) a large concentration of potato production in Eastern Territory -- the area with the greatest percentage increases in freight rates, (2) a relatively shorter average length of haul for potatoes than for several other fruits and vegetables whose production is more concentrated geographically, and (3) the fact that many high-valued fruits and vegetables travel on higher rates than the relatively low-valued potato. The last two reasons would tend to make the holddowns more effective on certain other fruits and vegetables than on potatoes.

Although one of the primary reasons for the holddowns was to give relief to long-haul producers when rates are increased by a fixed percentage, the rate differentials between long- and short-haul producers have continued to increase.

The rigidity of freight rates is revealed by the greater fluctuations in the wholesale prices of potatoes for the nine markets compared to the freight rates.

In $3\frac{1}{2}$ years of the postwar period, the level of rail freight rates on potatoes compared to the base-period 1947-49 was well above the wholesale price level of potatoes.

A comparison of freight rates as a percentage of the wholesale price of potatoes in 1946 and the first 6 months of 1953 revealed that in only 3 supply sources of a total of 84 for the nine cities did the freight-rate percentage show a decline.

For those sources of supply that suffered sharp price declines in the first half of 1953, the ratio of freight rates to wholesale prices has increased substantially. Even for those sources of supply whose wholesale prices in 1953 are still well above the 1946 level, the increase in freight rates has exceeded the increase in wholesale prices. As a result, the ratio of freight rates to wholesale prices has continued to increase.

TREND OF PRODUCTION IN THE UNITED STATES

Potatoes are grown commercially in each of the 48 States. However, 12 of these States accounted for 75 percent of all potatoes produced in this country in 1951. 2/ The major production areas shown in the map (fig. 1) are easily discernible. Five Western States -- California, Oregon, Washington, Idaho, and Colorado; 4 Central States -- Minnesota, North Dakota, Wisconsin and Michigan; and 3 Eastern States -- New York, Pennsylvania, and Maine -- make up the principal producing areas.

In the last 20 years, production of potatoes in this country has undergone some rather drastic changes. The more important of these changes have been (1) a steady decline in acreage of potatoes, (2) a sharp increase in yield per acre, (3) a shift toward concentration of production in the hands of large commercial growers, and (4) a shift toward greater geographic specialization of potato production. As a result of the concentration of production, a sharp decline has occurred in the quantity of potatoes used for food and seed on farms where grown. At the same time farm sales have increased substantially. 2/ This latter factor, as well as increased geographic specialization, has tended to emphasize the importance of transportation.

^{2/} Production in thousands of bushels for the 12 States in 1951 was as follows: Maine, 44,500; Idaho, 36,680; California, 35,105; New York, 29,715; Pennsylvania, 16,215; North Dakota, 13,320; Colorado, 12,240; Minnesota, 11,900; Washington, 10,920; Michigan, 10,800; Oregon, 10,240; and Wisconsin, 9,805.

^{3/} See United States Bureau of Agricultural Economics, Potatoes:
Acreage, Production, Value, Farm Disposition, January 1 Stocks (1866-1950),
U. S. Dept. Agr. Statis. Bull. 122, March 1953.

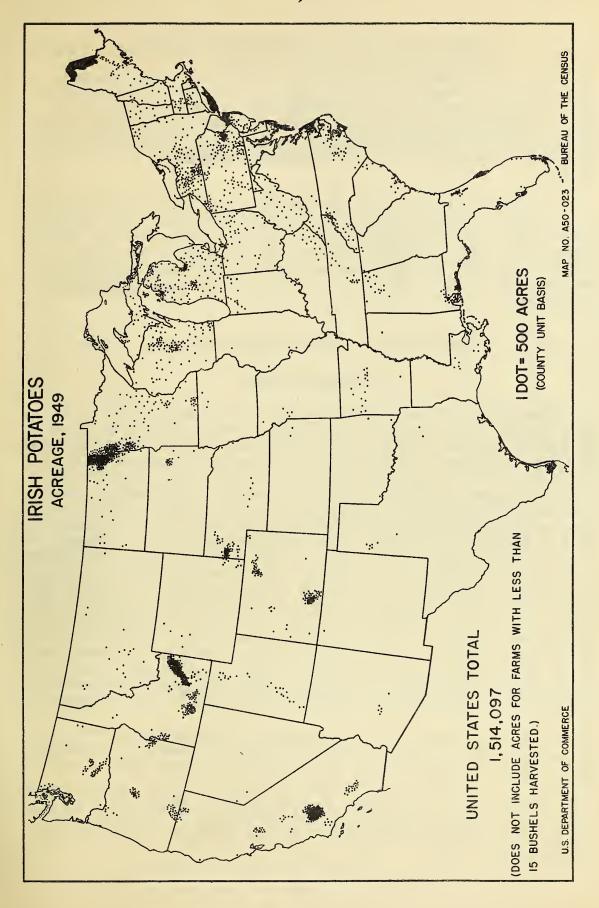


Figure 1

TREND IN PER CAPITA CONSUMPTION OF POTATOES

Per capita consumption of potatoes has also undergone a change, although over a somewhat longer time period than that associated with the previously mentioned changes in production. Although the per capita consumption of potatoes fluctuates with changes in production, since 1910 there has been a definite downward trend. From a peak figure of 195 pounds in 1910, per capita consumption had fallen to 104 pounds by 1951.

The decline in per capita consumption is due largely to changes in living habits, shifts in population from rural to urban areas, and improvements in the production, processing, and marketing of other vegetables and fruits. These improvements have greatly increased the availability of other vegetables and fruits. The growth in population has been sufficient to prevent a downward trend in total consumption of potatoes.

DISTRIBUTION OF SHIPMENTS BETWEEN MARKETS

By Source of Supply

Description of the traffic-flow pattern of potatoes for a number of large markets, and changes in this pattern, both as to sources of supply and type of carrier, will provide a useful introduction to the subsequent analysis of freight rates and prices. The source or sources of supply for potatoes to a particular market are the result of several factors. of which distance is only one. Potatoes are not a homogeneous commodity. They display differences in quality that are associated with such conditions as variety, growing area, methods of harvesting, and shipping. These differences in quality lead to differences in price. Consumer preference is an important influence in price relationships and in relative quantities of the various kinds of potatoes consumed in a market. Some markets, for instance, display a relatively strong preference for Idahos, others for potatoes from Maine or for the locally grown product. Shifts in sources of supply may result in changes in wholesale prices in respective markets. At the same time these changes in sources of supply may be due to changes in freight rates, which in turn may affect the proportionate share of the traffic hauled by each type of carrier. Obtaining an understanding of the distribution of carlot shipments between selected markets is a necessary first step in this analysis.

Table 1 indicates that the specialized producing areas tend to dominate the large markets. However, during the 7 years of the postwar period, there has been substantial shifting among these areas.

In 1946 Maine, for example, was the largest supplier in Boston, Atlanta and Cleveland; Idaho in Chicago and St. Louis; Colorado in New Orleans; New York in New York City; and California in Los Angeles and San Francisco.

Table 1.- Percentage distribution of unloads of potatoes, by source of supply, 9 selected markets, 1946-52

| in the second second | | | Boston | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Source of supply | 1946 | 1947 | | 1949 | 1950 | 1951 1952 |
| | Percent | Percen | t Percent | Percent | Percent | Percent Percent |
| Maine North Carolina Virginia New York California Florida Massachusetts South Carolina Idaho Washington Rhode Island Nearby truck Canada Other | 50 2 4 14 7 3 1 2 1 1/ 6 6 3 | 1 | 44 2 4 9 10 1 1/ 1/ 16 3 16 3 | 49 3 8 7 12 3 2 1/ 1 1 4 2 7 1 | 45 1 5 11 11 3 3 1/3 1/3 2 8 7 2 | 52 1 4 4 12 13 6 6 6 4 1 |
| Total | 100 | 100 | 100 | 100 New Yo | 100 | 100 West 100 12 1 |
| A STATE OF THE STA | Lucasina Turangan | o reconstruction of the contract of the contra | The Various anderson | | مستشد السسيد | - 10 C C C C C C C C C C C C C C C C C C |
| New York Maine Virginia | 41 23 | 21 | 45 23 | . 36 - 28 6 | 35 | 38 34 28 34 |
| Florida North Carolina Idaho | 7 4 6 3 1 8 1/ 1/ 1 | 2 4 5 2 2 8 / 1 4 3 | 4 2 5 1/ 1 7 1 1/3 3 | 4 3 7 1 7 1 3 2 | 3 1 7 1 1/7 1:12 2 | 5 4 4 2 9 1 1 1 5 1 1 2 3 2 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 100 Continued |
| | *. | | \$ f | \$\$. | | la l |
| All the section of th | d on edition of | e e e e e e e e e e e e e e e e e e e | The first of the second | ang | Control of the second | the first of the second of the |
| A Soft State of the state of th | | | | | | |

Table 1.- Percentage distribution of unloads of potatoes, by source of supply, 9 selected markets, 1946-52 - Continued

| | | A. | t <u>lanta</u> | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Source of supply | 1946 | 1947 | 1948 | : 1949 | ; 195Ő, | : 1951 | 1952 |
| management and spinning and derivative special and a second special and a second special and a second special | Percent F | ercent | Percent I | ercent | Percent | Percent | Percent |
| New Jersey Georgia Florida Idaho Maine Alabama Tennessee Wisconsin South Carolina Colorado North Carolina North Dakota Minnesota New York California Pennsylvania Washington Canada Other | 10 9 11 10 14 8 3 3 2 2 6 3 4 1/ 2 | 14 7 8 11 9 6 4 1 2 1 6 4 3 6 4 1 1 3 9 | 14 8 9 11 5 2 1/ 5 7 2 4 4 4 1 2 | 14 11 12 47 34 31 54 22 54 15 9 | 93333911311257177 | 16 2 11 14 3 6 1 2 1/ 4 1 15 3 7 2 8 | 11 2 15 14 9 5 1 3 4 1 2 9 4 4 1 1/8 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| * | emperature arimments on | - | - | | - | e Maria programma a programma | |
| 1. 1 | Contraction or representation or | ; · | net | w Orlean | IS | · . | |
| Louisiana Idaho Colorado New York Nebraska Maine Florida California Texas North Dakota Alabama Minnesota Wisconsin Washington Other | 19 19 20 3 7 1 26 2 2 5 1 4 1 8 | 7 16 18 8 1 14 43 55 43 | 5 17 8 3 9 2 2 15 5 6 3 12 8 2 3 | 2/ 22 12 2 9 1/ 2 21 2 2 2 2 2 3 6 2 | 2/ 26 11 8 12 1 16 2 2 3 3 3 3 | 2/ 27 8 7 12 2 15 3 1 4 3 5 6 | 2/ 26 10 3 9 4 5 21 3 2 3 3 2 6 3 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| The second secon | | | | | | Cont | inued |

Table 1.- Percentage distribution of unloads of potatoes, by source of supply, 9 selected markets, 1946-52 - Continued

| | | Cle | veland : | , | ·, · | 1.761 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Source of supply. | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| and the second s | Percent. | Percent | Percent | Percent | Percent | Percent | Percent |
| Maine Idaho Virgînia North Carolina Florida Alabema California New Jersey South Carolina Nebraska Texas New York Minnesota Pennsylvania North Dakota Oregon Washington Arizona Ohio Other | 26 9 3 2 5 3 17 4 1 1 2 10 1 1 4 1 4 1 4 1 | 28 10 2 3 2 2 20 2 1 1 2 10 1/ 1 1 7 4 2 | 27 10 1 2 5 2 25 1 1/ 1 1 3 1 8 1 | 18 11 2 6 1 25 1 1/ 1 8 1 1 1 5 1 10 5 | 20 13 3 1 6 1 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 19 17 2 1 6 2 18 2 3 1 9 1 2 1 4 1 6 2 | 25 16 1 1 5 1 19 1 2 1 10 1 3 1 4 2 |
| ng transfer of the second | | | | hicago | | | |
| Idaho North Dakota Nebraska California Minnesota Alabama Wisconsin Colorado Louisiana Texas Michigan Oregon Florida Indiana North Carolina Washington South Carolina Arizona Other | 26 11 6 13 5 3 5 12 1 2 2 1/ 1/ 5 1/ 1 | 20 9 5 13 7 3 12 1/ 3 1 2 3 1/ 2 5 1/ 2 5 | 22 12 3 17 8 3 6 11 1/ 2 1 2 1/ 1/ 3 | 2/ ₁ 10 3 16 6 3 8 11 1/ 2 1 2 3 1/ 1 6 1/ 2 2 | 22 11 3 16 7 3 9 9 1/ 2 2 2 1/ 1/ 6 1/ 2 4 | 22 13 2 14 10 3 12 5 1/ 2 3 2 1 1/ 5 1/ 2 3 | 24 17 1 13 9 3 7 1/ 2 1 2 3 1/ 2 1/ 2 |
| Total | 100 | 100 % | 100 | 100 | 100 | | 100 |
| | | | | | | Con | tinued |

Table 1.- Percentage distribution of unloads of potatoes, by source of supply, 9 selected markets, 1946-52 - Continued

| St. Louis | | | | | | | | |
|--------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|----------------------------------------------|----------------------------------------------------------|--|
| Source of supply | 1946 | 1947 | 194 8 | 1949 | 1950 | 1951 | 1952 | |
| | Percent | Percent | Percent | Percent | Percent | Percent | Percent | |
| Idaho Nebraska Minnesota Morth Dakota Alabama Arkansas California Louisiana Colorado Texas | 23 19 6 8 7 2 10 2 6 | 22 ° 19 7 8 6 2 12 1 7 2 | 17 20 10 8 5 2 12 1/ 4 2 | 21 17 10 6 5 2 14 <u>1</u> / 7 | 18 16 9 5 6 1 11 7 | 22 19 7 3 8 1 7 1/ 6 | 19 16 10 8 6 1 9 1/ 7 3 1/ | |
| Missouri Wisconsin Florida Oregon Maine Washington Nearby truck Other | 1/ 1 3 1/ 2 2 5 | 2 1 2 1 2 1/ 3 1 | 1 3 1 2 3 1 1 | 1 4 1 2 1/ 3 2 | 2 6 1 : 2 · 1 · 3 1 | 1/ 9 1 2 1/ 2 1 | 7 3 2 1 4 <u>1</u> / | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| | | | San | Francisc | 0 ' | | | |
| California Oregon Idaho Florida Washington Nevada Other | 53 35 6 2 1/ 2 2 | 59 28 5 1 3 2 2 | 63 21 ₄ 8 1 1 2 | 59 30 5 1 3 1 | . 55 . 35 . 3 . 1 . 4 . 2 . 1/ | 55 37 3 1/ 3 2 1/ | 52 36 5 1 3 1 2 | |
| | | annighten | | | | | - | |
| | | | i | Angeles | | | | |
| California Idaho Oregon Utah Other | 68 21 3 6 2 | 73 18 3 5 | 73 20 2 4 1 | 70 22 3 5 | 69 19 7 5 | 68 21 5 6 | 63 26 7 2 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| 1/ Less than 0.5 percent. 2/ Unload data not reported. | | | | | | | | |

Unload data was obtained from Production and Marketing Administration.

By 1952, this picture had changed considerably. Haine was still the dominant supplier in Boston and Cleveland. In addition, Haine ranked with New York State as a principal supplier in New York City, but it did not keep pace in the expanding Atlanta market. In that city, it lost ground largely to Florida, Idaho, New Jersey, and New York.

Although Idaho continued to be the largest supplier in Chicago, its position is threatened by the Red River Valley area of Minnesota and North Dakota. In fact, the combined carlot unloads from these States exceeded Idaho unloads in Chicago in both 1951 and 1952. 4/

Similarly, in St. Louis, Idaho has lost ground to the Red River Valley area and Wisconsin. In 1948, unloads from the Red River Valley exceeded unloads from Idaho, while in 1952 they were only 69 less than the Idaho figure.

In the New Orleans market, Idaho potatoes predominate, largely at the expense of Colorado and Louisiana potatoes. 5/

In the two West Coast cities -- Los Angeles and San Francisco -- California continued to supply the lion's share of the unloads, although Washington has made some gains in the San Francisco market, as have Idaho and Oregon in Los Angeles.

During the 7 years, the trend in total unloads for each of the nine cities was generally upward, with the exception of Boston and San Francisco. 6/ Although total production and unloads were down somewhat for the main source of supply in each of the two cities (Maine for Boston and California for San Francisco), the decline in unloads from these two principal suppliers was not offset by any sizable increase from other sources of supply.

^{4/} As average Idaho production in 1950-52 exceeded that of the previous 5 years (1945-49), reduction in unloads cannot be attributed to small crops during this period.

^{5/} Although the reduction in Louisiana unloads since 1949 cannot be ascertained because of incomplete truck data, the sharp drop in total production in this State from 1947 to 1952, indicates that the 1946-48 trend in unloads undoubtedly has continued.

^{6/} While Cleveland also showed a decline during this period, this decline was due to the relatively large number of unloads received in Cleveland in the base-year 1946. For example, total unloads of potatoes in Cleveland in 1946 exceeded those of any year between 1940 and 1952. Since 1940 there has been a generally upward trend in total unloads of potatoes in the Cleveland market. In contrast, the trend in both Boston and San Francisco has been generally downward.

Both cities have increased in population during this period, particularly San Francisco. Probably at least a part of the decline in total unloads of potatoes is a reflection of a shift from potatoes to other types of foods, and the same and the s

Atlanta has shown the greatest percentage increase and the most consistent pattern in its unloads. Its unloads of potatoes have increased each year, from 2,461 carlots in 1946 to 3,759 carlots in 1952. 7/ creased each year, from 2,401 carrots in 1,400 to 3,100 to a 53-percent increase.

the garage By Type of Carrier The increasing volume of agricultural products hauled by trucks in recent years is exemplified by table 2. Percentages for the prewar year 1940 are also included in this table, as it is doubtful whether the motor carrier industry in 1946 had fully recovered from the effects of gas rationing, equipment shortages, and repair difficulties so prevalent the first of the second of in World War II.

we comment the second Between 1940 and 1952 (excluding 1941-45) in five of the seven cities for which complete data are available, truck unloads of potatoes accounted for a generally increasing percentage of total unloads.

The greatest gains in truck traffic during this period occurred in Boston, San Francisco, and Los Angeles. In New York and St. Louis, trucks have lost ground to the railroads. St. Louis now ranks with Chicago as overwhelmingly a rail city when percentages of rail and truck unloads of potatoes are compared. The data on unloads for Atlanta indicate that trucks have regained their prewar position of dominance in that market.

Boat unloads were of some importance in the prewar period in Boston, New York, New Orleans, and San Francisco. By 1952, however, only New York retained this type of movement. Even here boat shipments were sporadic. In one postwar year, no boat unloads of potatoes were recorded, and in four of the other years, boat unloads were no greater than 1 percent of total unloads. The increase in boat unloads in 1952 was undoubtedly caused by the overall shortage of potatoes during the second quarter of that year. For example, 694 boat carlot equivalents of potatoes came from Spain during that year. Service of the particular of the service

The virtual disappearance of boat shipments at these port cities reflects the general decline in coastwise and intercoastal shipping in the postwar period. With high costs of labor in ship construction and operation and in cargo handling which resulted in high water rates, the differential between boat and rail and truck rates were insufficient to offset the slower service of the water carriers.

^{7/} See appendix table 14, pp. 43-45.

Table 2.- Percentage distribution of unloads of potatoes, by type of carrier, 9 selected markets, 1940 and 1946-52

| 9 selected markets, 1940 and 1946-52 | | | | | | | | | | |
|--------------------------------------|--------------------------------------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|-----------|----------|--|--|
| | Market and : 1940 : 1946 : 1947 : 1948 : 1949 : 1950 : 1951 : 1952 | | | | | | | | | |
| type of carrier: | | | | : : | | | | | | |
| Boston | Percent | Percent | Percent | Percent. | Percent | Percent | rercent | rercent | | |
| Rail | 79 | 92 | 87 | 75 | 62 | 65 | 69 | 63 | | |
| Truck | 13 | 8 | 13 | 25 | 38. | 35 | 31 | 37 | | |
| Boat | 8 | | | | - | | - | | | |
| Total | 100 | 100 | 1.00 | 100 | 100 | 100 | 100 | 100 | | |
| | • | her works a train | garry . | | 5 K 5 1 | | | | | |
| New York | . 1990 A 16 | | gana ing sa | · *// | A A | | | *** | | |
| Rail Truck | 44 | 56 | 52 | 45 | 51 | 54 | 51 | 53 | | |
| Boat | 51 | 44 | 48 | 55 | 49 | 46 | 49 1/ | 43 | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| | t see a see a See as | | | | | | | | | |
| Atlanta | to a margin day. | Albania (n. 1864). National | | recent of any other constraints | gar i kasa na Mana K | in water as the first of the | 4-14 | | | |
| Rail | 37 | 73 | 65 | 47 | 39 | 32 | 31 | 35 | | |
| Truck | 63 | 27 | 35_ | 53 | 61 | 6 <u>8</u> | 69 | 65 | | |
| Total | 1.00 | 100 | 1.00 | 100 | 100 | 100 | 100 | 100 | | |
| New Orleans | | | | | refresentation | | 113 | | | |
| Rail | 33 | 84 | 89 | 89 | 82. | 77 | 76 | 78 | | |
| Truck | 38 | 15 | ıí | | 2/14 | 2/ 22 | 2/24 | 2/ 22 | | |
| Boat | 29 | 1 | 1/_ | | 14 | <u> </u> | | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| (7) | | 1.4 | | | . i). 5 🕠 | | 1::. | | | |
| Cleveland Rail | 100 | 188 | 90 | 82 | 75 | 15" 7 8 15 | 79 | 81 | | |
| Truck | 3/ | 12 | 10 | 18 | 25 | 22 | 21 | 19 | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 44.4 | | C | | | | | | | | |
| Chicago | | • • • • • • • • • • • • • • • • • • • | | | | | | | | |
| Rail: | 98 | 100 | 100 | 100 | . 99 | . 99 | 95 | 97 | | |
| Truck | 700 | 17.00 | 1/ | 1/ | 300 | 100 | 300 | 3 | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| St. Louis | \$ 5.840 UT | Y | | Market Talk 1994 | 4 Dr. B. C | 1 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 11 11 | | | |
| Rail | 82 | 95 | 96 | 95 | 95 | 93 | 94 | 97 | | |
| Truck | 18 | 5 | 4 | . 5 | 5 | 7 | . 6 | 3 | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Cam Page 3 | proven a sign | | | | : | | rut swid | | | |
| San Francisco : Rail | 65 | 77 | , 20 | 677 | 60" | 62 | 11/1/2/20 | FO | | |
| Truck | 65, 25 | 26 | 28 | 33 | 68 32 | 37 | 36 | 59 41 | | |
| Boat | 10 | ~U | ~Q | | JA | | | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| | | | | | | | | | | |
| Los Angeles | 1.41 | 11 · · · · · · · · · · · · · · · · · · | rain ann an Aire. Anns ann an Aire | e de la compania de La compania de la co | ter en | | | | | |
| Rail | 41 | 43 | 35 | 34 | 32 | 27 | 31 | 39 | | |
| Truck | 1 1 1 | · · • • • • • • • • • • • • • • • • • • | 1 5 65 | na | n, a g 68 , e e | 73 | 69 | 61 | | |
| Boat Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1/ Togg they | 100 | 100 | TO0 | 100 | 100 | 100 | . TOO: | 100 | | |

^{1/} Less than 0.5 percent.
2/ Truck unloads for Louisia
3/ Truck data not reported. Less than 0.5 percent.

Truck unloads for Louisiana potatoes not reported.

In the postwar period, seven of the nine cities show an increasing percentage of truck unloads. In addition to the cities previously mentioned, both Cleveland and New Orleans had increases in truck unloads.

Table 3 illustrates the increasing importance of truck transportation of potatoes for several major supply sources to selected markets. Whereas truck unloads as percentages of total unloads for these major movements ranged from 0 to 54 percent in 1946, by 1952 trucks were hauling from 18 to 100 percent of this potato traffic.

Table 3.- Truck unloads as percentage of total unloads, by source of supply, selected markets, 1946 and 1952 1/

| | ` | 10 | | and the same of th | |
|-------------|---------------------------------------|----------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Source of s | upply : Market | | | ds as percentage al unloads | 9 |
| | : | : | 1946 | | |
| | · · · · · · · · · · · · · · · · · · · | : | Percent | Percent | |
| | : | | Set a Company trans | with the second second | r . |
| New Jersey | : Atlanta | | 14.0 | 100 | • |
| New York | * Atlanta | • | 0 | 99 : | |
| New York | : Boston | : | 2.0 | 97 ! | ÷ **** |
| New York | : Cleveland | : -9 | 28:0 | 97 | |
| Florida | : Atlanta | | 54.0 | 96 | |
| Florida | : New York | • | 164 | 37 | |
| Maine | Boston | 3 1: / Y | 3.0 | 11.25 | |
| Idaho | : Los Angeles | | 1.0 | 19 | |
| Wisconsin | : Chicago | : | •8 | 18 | हेक |
| | • | • | 100 | | |

^{1/} Only movements with an increase in truck unloads of 200 carlots or more were used in computing percentages.

Trucks are obtaining an increasing share of the traffic, although potatoes are rather well adapted to rail haulage for the following reasons: they are relatively low in value; tend to load heavily; have several large concentrated producing areas; and are not as perishable as many other fruits and vegetables. This increase in transportation of potatoes by truck in recent years has occurred, in many instances, at the expense of the railroads. 8/

The flexibility and convenience of trucks in pickup and delivery services have been important factors in this movement, yet it is evident that increases in rail freight rates have also played a part. In the 402-mile Maine-to-Boston haul, for example, the railroads still dominate in about a 3 to 1 ratio, even though truck traffic in 1952 had increased by nearly 1,000 carlots over that in 1946. 9/

^{8/} See Church, Donald E. and Snitzler, James R., Trucks Haul Increased Share of Fruit and Vegetable Traffic. Bur. Agr. Econ., Apr. 1953.

^{9/} In 1946, rail carlots from Maine to Boston totaled 3,685 and truck-loads 132. In 1952, rail carlots totaled 3,092, and truckloads 1,054 (see appendix table 12, pp. 39, 40).

Railroads are highly vulnerable to truck competition in hauls up to 500 miles, 10/ but they have been rather successful in retaining a large part of the Maine-to-Boston haul, by keeping their rates low. 11/ If the railroads had applied the full rate increases authorized since 1946, diversion of this traffic to trucks would probably have been much greater.

A similar effort on the part of railroads to maintain low rates on potato traffic in other areas might have lessened the diversion to trucks in those areas.

GENERAL RATE LEVEL INCREASES AND HOLDDOWNS AFFECT THE COMPETITIVE POSITIONS OF PRODUCERS AND SHIPPERS

Comparison of Rate Increases on Potatoes With All Fruits and Vegetables

Since the end of World War II, railroad freight rates on farm products have increased approximately 70 percent. During the same period railroad freight rates on potatoes increased 61 percent.

The use of holddowns (applying certain maxima to the rate increases on various agricultural products, including fruits and vegetables), has kept the increase in freight rates on potatoes below that for farm products as a whole.

But holddowns have not been nearly as effective in offsetting rate increases for potatoes as they have for all fruits and vegetables. For example, from 1946 to 1952, freight rates on fruits and vegetables increased only 45 percent, which was approximately 75 percent of the rate of increase on potatoes.

There are three principal reasons for this difference in percentage increases.

First, in some of the general rate-level increases, rates in Official Territory (roughly the area east of the Mississippi River and north of the Potomac and Chio Rivers) were increased more than those in other territories. 12/ As approximately 43 percent of all potatoes grown in the United States are produced in this area (average production,

^{10/} Purcell, Margaret R., Length of Haul to Leading Markets by Motor-truck, 1941 and 1950. Bur. Agr. Econ. June 1953.

^{11/} Rail freight rates from Maine to Boston increased only 32 percent in the postwar period. In contrast, rail freight rates on potatoes from all origins to Boston increased 44 percent. For further discussion of this matter, see pp. 22, 23.

^{12/} See Increased Railway Rates, Taxes and Charges 1946, 266 ICC 537, Increased Freight Rates, 1947, 270 ICC 93.

1941-50), this higher intraterritorial rate level would tend to raise the general level of rates on potatoes more than the level of rates for fruits and vegetables produced in other areas.

Second, rail rates on potatoes increased more than those on all fruits and vegetables because of variations in the location of producing areas. Despite the trend toward geographic specialization of potato production in recent years, potatoes are still commercially grown in every State in the Union. In contrast, production of such fruits and vegetables as oranges and grapefruit, apples, grapes, lettuce, and celery is relatively concentrated. As a result, these commodities require a generally longer length of haul than potatoes for nationwide distribution. 13/ The maximum freight-rate increases -- holddowns -- are thus applied to a larger proportion of the traffic of these commodities than of potatoes.

Third, many high-valued fruits and vegetables move on higher rates than those of the relatively low-valued potato. Holddowns on these higher rates thus result in a lower percentage increase. This fact is illustrated in the accompanying tabulation in which the 12-cent maxima prescribed in the latest general rate increase (Ex Parte No. 175) are applied to several fruits and vegetables moving from points of origin in California to Chicago (table 4). The application of all the holddowns

Table 4.- Freight rates, before and after Ex Parte No. 175 was applied, by specified commodities

| | 1-17 | | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|
| | Rate p | per 100 pound | |
| Commodity | Before | After 1/ | Percentage increase |
| | Dollars | Dollars | Percent |
| | The state of the s | - | District March 1999 |
| Grapes and peaches | 1.92 | 2.04 | 6.2 |
| Lettuce and celery | 1.85 | 1.97 | 6.5 |
| Grapefruit, lemons, and oranges: | 1.73 | 1.85 | 6.9 |
| Apples | 1.57 | 1.69 | 7.6 |
| Potatoes | 1.34 | 1.46 | 9.0 |
| 1/ 12 cent maxima applied. | and the second | | |

13/ In 1948 average length of haul, short-line, for several fruits and vegetables were as follows:

| Commodity | | | short-line |
|----------------------------------------------|------------|-------|------------------------------------------------------------------------------|
| Lettuce Apples Oranges and Potatoes | grapefruit | 2,247 | in the Art Market State No. The North State State State State State |

Church, Donald E., Effect of Increases in Freight Rates on Agricultural Products. Bur. Agr. Econ. Apr. 1950.

specified in the various rate-level increases would show much greater differences than those indicated in the tabulation.

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Comparison of Rail Freight Increases With and Without Holddowns

Of the 12 general rate increases that have been authorized for railroads since July 1, 1946, all but 3 have contained holddowns on fruits and vegetables — including potatoes. 14/ The extent of the holddowns on selected movements of potatoes is shown in table 5. Here the actual rail freight rates in effect on June 30, 1946 (just before the first postwar general rate increase), are compared to the actual rail rates in effect on May 2, 1952. 15/ All holddowns are included

Table 5.- Actual and hypothetical rail freight rates for selected movement of potatoes, June 30, 1946 and May 2, 1952 1/

| | - | - | CONTRACTOR OF THE PART AND | | | to the second second second second second |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------------------------|----------|------------|-------------------------------------------|
| 3. | | , R. | ate per 10 | 00 pound | s | P 7 |
| | | Actual | | Hypoth | etical : | Difference |
| • | | | | | 17 1 1: | |
| Origin . Market . | | hold- : | Percent-: | hold-: | Percent-: | actual and |
| | June 30, | downs': | age: | downs: | age :h | ypothetical |
| | 1946 | Mayr-2 | increase | Marr.2 | increase: | percentage |
| | | | | | | increase |
| | Cents | | Percent | | | Percent |
| | venus | Cenus | rercent | venus | rercent | rercent |
| in the same of the | 201 | 3 50 | ~0 | 3.00 | 20 | 00 |
| Maine : New Orleans : | 104 | 158 | 52 | 189 | 82 | 30 |
| Idaho : Atlanta : | 103 | 157 | 52 | 185 | 80 | 28 |
| Calif.: Chicago : | 92 | 146 | 59 | 166 | 80 | 21 |
| Maine : Cleveland 2/: | 67 | 118 | 76 | 127 | 90 % | : 14 |
| Fla. :Chicago 3/: | 73 | 125 | 71 | 133 | · .82 + · | 11 |
| Calif.: St. Louis 3/: | 86 | 140 | 63 | 147 | 71 | . 8 |
| 7 / Daned on Man 7 da | 117 | - 001 | C. T. | 20 101 | / L - NT C | 7000 |

1/ Based on "holddowns" in effect from June 30, 1946 to May 2, 1952.
2/ Holddowns were not applied until May 6, 1948 (Ex Parte 166), as the percentage increases were equal to but did not exceed the prescribed maxima prior to this date.

3/ Holddowns were not applied until May 2, 1952 (Ex Parte 175), as the percentage increases were equal to but did not exceed the prescribed maxima prior to this date.

^{14/} The justification for holddowns on farm products stemmed from (1) the fear that the rates in certain agricultural areas would become so high as to prohibit the movement of farm products to the more distant markets, (2) the desire on the part of the railroads, in certain instances, to keep their rates in line with truck rates in order to prevent so far as possible mass diversion of agricultural rail traffic to trucks, and (3) the implementation of congressional policy under the Hoch-Smith resolution, which was designed primarily to relieve agricultural distress. The Interstate Commerce Commission has given consideration to this resolution in the following cases, among others, General Commodity Rate Increases, 1937, 223 ICC 657, 746 (1937); Fifteen Percent Case, 1937-1938, 226 ICC 41, 77 (1938); Increased Railway Rates, Fares and Charges, 1942, 248 ICC 545 (1942). Increased Freight Rates, 1948, 272 ICC 695.

^{15/} The date the last general rate increase (Ex Parte 175) became effective.

when applicable. At the same time, hypothetical rail rates (in each case the full percentage increases have been applied without regard to the prescribed maxima) have been computed and are compared with the actual rates and percentage changes in these rates. The variations in the hypothetical percentage increases for the several movements are due to differences in the general increases in rate level authorized for the various rate-making territories. 16/

As shown by table 5, differences between the actual percentage increase (with holddowns) and the hypothetical increase (without holddowns) range from 8 to 30 percent. Holddowns have been most effective on movements from Maine to New Orleans, Idaho to Atlanta, and California to Chicago. In other words, holddowns are most effective on the very long hauls, which move within and between those rate-making territories that were granted the largest increases in rates.

Although the California to St. Louis movement is a relatively long haul — approximately 1,900 miles — the small difference between the actual and hypothetical percentage increase is due to the smaller rate increases granted Western Territory. Traditionally, the rate level in this territory and in Southern Territory has been higher than in Eastern Territory. In the postwar general rate increases, the Interstate Commerce Commission varied the rate increases, within and between these major rate-making territories in an attempt to equalize the rate levels of these three territories.

Rate Differentials Between Long- and Short-Haul Producers

Despite the application of fairly substantial holddowns to the post-war general increases in rail rates, the rate differentials between long-and short-haul producers of potatoes have continued to increase (table 6).

For example, the rate differential in the Chicago market between Wisconsin and California producers equaled \$0.73 in 1946. But by April 1, 1953, this differential had increased to \$1.07 -- almost half again as large as that of the earlier year.

Similarly, in 1946, the Red River Valley (Minnesota-North Dakota) had a 34-cent rate advantage over Idaho in the Chicago market; while the rate advantage of Wisconsin over Idaho in the same market equaled \$0.54. By 1953, these rate advantages, that is, rate differentials, had increased to \$0.54 and \$0.87, respectively.

A similar pattern of increasing rate differentials is revealed for New York City. Here the rate differential between New York State (largely Long Island) and such suppliers as Florida, Idaho, Washington, and

^{16/} In Ex Parte 166, (May 6, 1948), rate increases ranged from 20 to 30 percent and in Ex Parte 168 (September 1, 1949) from 8 to 10 percent within and between the specified rate-making territories. Eastern Territory received the largest increases and Western Territory the smallest.

Table 6.- Freight rate on potatoes and effect of increase upon rate differential, by source of supply, Chicago and New York City, 1946 and 1953

| Land Company of the State of th | . S. Proper | 20 per 31 c | Chicago | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|---------------------------------------|---------------------|
| Source of supply | | Rate per | 100 pounds | |
| pource or suppry | 1946 <u>1</u> / | 1953 <u>2</u> / | Excess over | lowest origin: 1953 |
| | Cents | Cents | | Cents |
| Wisconsin | nemassi <mark>21</mark> . ge | 39: 12: | n digitalisas | |
| Michigan | 17 Tels 34 miles | Watt 62 H | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - |
| Minnesota-N. Dak. | rathe (41 mm) | | | 35 |
| Nebraska 👙 😘 😘 🤫 | 52 556 | 92 | | 53 |
| North Carolina | | | | . 68 |
| Colorado | | | | 69 |
| Alabama | | | | 71 |
| Louisiana and and a | | | | 83 |
| Florida | | 125 | | · * 86 |
| Idaho : | 75 | 126 | 54 | 87 |
| Texas | 83 | 138 | (1) (4) 62 | 99 |
| Oregon | 89 | 142 | 68 | 103 |
| | 94 113 | | | 107 |
| Washington | | 146 | | 107 |
| Arizona | | 146 | | 107 |
| | | r <u>ek ista (, topi </u> | | , |
| | | New | York City | |
| | | The second second | | |
| New York | 24 | 43 | | |
| Virginia | | 59 | 8 | 16 |
| North Carolina | 41 | 71 | _ | |
| Maine | 48 | 76 | 24 | 33 |
| Florida | 72 | 122 | • | rd 7 9 |
| Idaho | • | 161 | 85 | |
| Washington | 130 | 182 | 106 | 139 |
| California | _ 1 1 1 | 182 | 49 8 106 6 C | 139 |
| | | | | |

Annual average freight rate weighted by number of days in effect. First 6 months only.

to the first of the control of the c

California ranged from \$0.48 to \$1.06. By 1953, the rate differentials between New York State and these more distant sources of supply ranged from \$0.79 to \$1.39.

With prices of potatoes sharply declining, these widening rate differentials will tend to increase the difficulties of the more distant producers in reaching adequate markets for their crop. 17/

FREIGHT RATES AND WHOLESALE PRICES OF POTATOES

A freight rate is the price charged for transporting an article from one place to another. It is usually quoted in cents per hundred pounds. It differs from the transportation charges for a shipment, a term that includes not only the freight rate but also accessorial services and the 3-percent Federal transportation tax. 18/ Because of the difficulty in correctly ascertaining these additional charges, as well as the fact that the freight rate makes up most of the total transportation charges, this study assumes that freight rates are representative of total transportation charges.

Calculation of the Index of Freight Rates on Potatoes

An index of freight rates is designed to show changes in the rate alone. The index of freight rates for potatoes is an arithmetic average of changes in freight rates. In weighting these averages consideration was given to tonnage movement on the different rates, either through the assignment of constant weights governed by total carlot unloads, or through distribution of the number of rates included for different areas or States in rough accordance with carlot shipments.

By relating the changes in freight rates in the time series to the generally accepted postwar base-period 1947-49, a more satisfactory analysis of the effect of forces on the increases in rates can be made than by presenting the data on rates in their original form. Then, too, constructing an index of freight rates and a subsequent index of whole-sale prices also facilitates comparison of the trends of these two-series. The rate relatives are based on the average of rates successively

^{17/} Between August 15, 1952 and June 15, 1953, average prices received by growers of potatoes fell from \$2.77 to \$1.02 per bushel. The June 15, 1953, price of \$1.02 per bushel is 67 percent below that of June 15, 1952, and 36 percent below the average price received by growers of potatoes from January 1947 to December 1949.

^{18/} Accessorial services include the following activities which ordinarily involve a special charge over and above the freight rate: Storage, demurrage, drayage, lighterage, reconsignment and diversion, icing and heating, inspecting, and grading.

in effect during the calendar year. In arriving at the annual averages, successively applicable rates are weighted in proportion to the number of days the rate was effective. 19/

Rates used for the individual movements apply to carlot shipments with the highest minimum weight, that is, the lowest rail freight rate which was in effect at the time. The index of freight rates for 1953 consists of rail rates in effect during the first 6 months of the year.

Weights used in the index are arithmetic averages of the 1947-49 total rail, boat, and truck unloads of potatoes from each origin to each of the selected markets. Although it would have been desirable to calculate separate indexes of rail and truck rates, applying truck rates against truck unloads, this procedure was not practicable. For the most part, charges for trucking are not available. Most of the truck hauling of potatoes is done by agricultural exempt carriers, that is, carriers of farm products who are not subject to rate regulation by the Interstate Commerce Commission. These rates are therefore the result of bargaining by each carrier and each shipper and are often not published. However, it is generally believed that changes in rail rates are a fair approximation of changes in truck rates, at least on the longer hauls. The use of

19/ The formula used for this type of weighted aggregative index is:

$$R_{y_0} = \frac{r_{y_1} q_{o_1} + r_{y_2} q_{o_2} + r_{y_3} q_{o_3} + \cdots r_{y_n} q_{o_n}}{r_{o_1} q_{o_1} + r_{o_2} q_{o_2} + r_{o_3} q_{o_3} + \cdots r_{o_n} q_{o_n}}$$

Where:

Ryo = index numbers for potatoes in a given year y, the year being compared to the base period o.

ry = annual average rate in year y for movement 1.

 r_{y_2} = annual average rate in year y for movement 2.

rol = annual average rate in year o for movement 1.

r_{oo} = annual average rate in year o for movement 2.

 q_1 q_2 = base period quantities as weights for movements 1, 2, ...

The weighted aggregative method of constructing index numbers has received general application. The Bureau of Agricultural Economics uses it in computing indexes of prices received and of prices paid by farmers. The United States Bureau of Labor Statistics also uses this method in computing its indexes of wholesale commodity prices and of retail food prices.

boat rates would have affected the index very little, as boat traffic in potatoes in the postwar period has been insignificant.

The nine markets were selected on the basis of geographic location, size, and completeness of carlot-unload data. The index of freight rates is made up of origin-to-market movements approximating 90 percent of the total unloads for each of the selected cities.

The representativeness of the index to the universe is indicated by the fact that it shows a rate increase of 59 percent for the nine markets, 1946-52, compared to a rate increase on potatoes during the same period of 61 percent for the country as a whole.

Variations in the Freight-Rate Index

The index of freight rates for the nine markets indicates increases during the period ranging from 44 to 67 percent (table 7). St. Iouis, with the greatest percentage increase, is followed closely by Chicago and Atlanta. San Francisco and Ios Angeles had the same percentage increase, as did New York and Cleveland. The increase in rates was least to Boston. In fact, the percentage rate increase for Boston was substantially below that for the other cities. The percentage rate increases for the other eight cities fall within a range of 59 to 67 percent, in contrast to Boston's 44 percent. The percentage rate increases for the two southern cities exceeded 60 percent, Atlanta exceeding New Orleans.

In 1946 the freight rate indexes for the several cities varied only slightly, but by 1949, the freight rate index for Boston was well below those of the other selected cities. 20/ This discrepancy became more pronounced in later years.

Variations in the rate increases between the several cities may be explained by variations in truck competition, by regional differences in the percentage increases in certain of the general rate-level cases, and by variations in the application of specific maxima (holddowns) to these rate increases.

The lower percentage increase in freight rates on potatoes for Boston is largely the result of low rail freight rates maintained on Maine-to-Boston shipments. For New York City, also, relatively low freight rates on potatoes from Maine, because of truck competition, kept the freight-rate index from rising as rapidly as those for some of the other cities. 21/

^{20/} In contrast, Boston's freight-rate index in 1948 was the highest of the nine cities. Up until this time, the railroads had taken the full rate increases on shipments to Boston.

^{21/} Maine not only dominates the Boston potato market, it also ranks with New York State as a principal supplier for New York City.

Table 7.- Index numbers of freight rates, potatoes, 9 selected markets, 1946-53 1/

| | 1953 1953 | | | | | | | | | • | |
|----------------|------------------------------|---------|----------|----------|-----------|-------------|-----------|---------|-------------|-----------------|---------------|
| | Percent change over 19 | Percent | 777 | 266 | 65 | 62 | 65 | 99 | 29 | 79 | 479 |
| | 1952 :1953 2/: | | 112 | 122 | 125 | 123 | 122 | 125 | 126 | 127 | 125 |
| | 1952 | | 113 | 120 | 123 | 121 | 121 | 123 | 123 | 123 | 121 |
| | 1951 | | 107 | 112 | 115 | 114 | 114 | 11.5 | 115 | 114 | 111 |
| 100 | 1950 | | 103 | 110 | 112 | 112 | 111 | 112 | 112 | 111 | 111 |
| 194.7-49 = 100 | 1949 | | 107 | 111 | 110 | 109 | 109 | 110 | 109 | 109 | 108 |
| | 1948 | | 105 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 |
| | 1947 | | 88 89 | 98 | 87 | (O (O) | 87 | 87 | 87 | 88 | 83 83 |
| | 1946 | | 78 | 9/ | . 9% | 92 | 22 | 75 | 75 | 111 | 76 |
| | Market : | •• | Boston | New York | Atlanta : | New Orleans | Cleveland | Chicago | St. Louis : | San Francisco : | Los Angeles : |

1/Only rail rates are used, weighted by 1947-49 average carlot unloads, which include all types of carriers.

2/ Based on first 6 months of 1953.

The lower percentage increase in freight rates for Cleveland is explained by the fact that its average length of haul from principal sources of supply is greater than that of the other nine cities; consequently the holddowns on the rate increases are more effective. 22/

One indication of the effectiveness of these holddowns in maintaining relatively lower freight rates for Cleveland is to compare percentage increases in freight rates on long- versus short-haul producers. For example, in 1952, Cleveland obtained 40 percent of its total unloads from Idaho, California, Washington, and Oregon. The percentage increase in freight rates for these States in contrast to other sources of supply for Cleveland are shown in table 8.

Table 8.- Freight rate on potatoes, by selected source of supply, Cleveland, 1946 and 1953

| | | | reight | rate per I | 100 pound | ds | 1 |
|--------------|------------|-----------------|--------|-----------------|-----------|----------------------|-----|
| Source of s | supply: | 1946 <u>1</u> / | • | 1953 <u>2</u> / | No. | Percentage change | |
| | | Cents | | <u>Cents</u> | | Percent | |
| California | • | 114 | | 166 | | 46 | |
| Washington | : 1 | 114 | • . | 166 | | 46 | 5.5 |
| Oregon | : ' | 108 | | . 161 | | 49 | 1 |
| Idaho | : . | 92 | | 144 | | 57. | |
| Maine | - : | 70 | | 118 | | 69 | 4 |
| Virginia | : | 44 | | . 7 8 | | 77 | |
| New York | : | 44 | + 14 | : 80 | 150 | 82 | , |
| Pennsylvania | 1 | 29 | | 53 | | 83. | |

 $\frac{1}{4}$ Annual average freight rate weighted by number of days in effect. First 6 months only.

22/ The weighted average length of haul in miles for each city is as follows:

| New Orleans . | 1,512 | Cleveland | 1,406 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------|
| | 1,343 | St. Louis | |
| | 1,028 | Boston | |
| | | San Francisco | 416 |
| the state of the s | Los Angeles . | 322 | , |

(Only the base-period sources of supply were used in computing a weighted average length of haul for each city.) The length of haul for New Orleans is somewhat exaggerated, because lack of data on truck unloads made it impossible to give full weight to Louisiana in arriving at an average length of haul weighted by 1947-49 unloads. If full weight had been given this local source of supply, the New Orleans average length of haul would more nearly have equaled that of Chicago than of Cleveland.

In St. Louis and Chicago, two of the three cities with the largest percentage increases in freight rates, truck competition for the potato traffic is negligible. In both cities railroads have hauled more than 90 percent of the potato traffic in the postwar period. Truck competition as a rate-reduction factor thus has had little or no influence in these markets.

Besides the lack of truck competition, the higher percentage increases in Official Territory would tend to keep the rate index for Chicago above the freight-rate indexes of southern and western cities. This would not apply to St. Louis, as it is in Western Territory. As previously mentioned, this area had the smallest percentage increase in its intraterritorial rates.

These regional differences in percentage increases would tend to keep the rates for St. Louis lower than those for Chicago, but this tendency was more than offset by a longer average length of haul for Chicago, 23/ thus making possible a greater application of holddowns to Chicago's sources of supply.

The relatively greater percentage increase in freight rates for Atlanta as compared to New Orleans is due primarily to a much longer average length of haul for the latter city. 24/ Once again, as a result of this factor, holddowns would be more effective on the New Orleans potato traffic.

Calculation of the Index of Wholesale Frices

Changes in the wholesale prices in central markets are of concern to farmers because, typically, prices received by farmers are determined by the central-market price less transportation and other marketing charges. With the construction of an index of wholesale prices of potatoes corresponding to the index numbers on freight rates, it is possible to compare trends in rates with trends in prices.

Wholesale prices used in the index were obtained from the Production and Marketing Administration of the United States Department of Agriculture. The prices represent private sales in less than carlot quantities and are generally made by the first seller in the terminal market. Prices shown are for stock of good merchantable quality and condition -- U. S. No. 1 grade, generally size A.

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^{23/} See footnote 22.

^{24/} Ibid.

The method employed in the construction of an index of wholesale prices on potatoes follows that previously used in preparing the index of freight rates on potatoes. 25/

An average monthly wholesale price for each origin was obtained by a simple average of representative prices for honday of each week during the month. 26/ An annual average wholesale price for each origin in the nine markets was then computed by weighting the average monthly wholesale price by the monthly unloads received in each market from that particular origin. The annual average wholesale price was computed for each market by weighting the individual prices within the market by the same quantity weights used in the index of freight rates on potatoes. The index numbers were obtained by a simple average of these price relatives.

In obtaining the combined indexes of wholesale prices on potatoes, the annual average wholesale price for each market was weighted by its respective constant weight aggregate.

The index of wholesale prices is constructed on a calendar-year basis and includes the first 6 months of 1953. The price index for this latter period is unadjusted for seasonal variation.

25/ The formula for the weighted aggregate index which is the same as that used in the index of freight rates is:

$${}^{P}y_{o} = \frac{p_{y_{1}} q_{o_{1}} + p_{y_{2}} q_{o_{2}} + p_{y_{3}} q_{o_{3}} + \cdots p_{y_{n}} q_{o_{n}}}{p_{o_{1}} q_{o_{1}} + p_{o_{2}} q_{o_{2}} + p_{o_{3}} q_{o_{3}} + \cdots p_{o_{n}} q_{o_{n}}}$$

Where:

Pyo = index numbers for potatoes in a given year y, the year being compared to the base period o.

 p_{y_1} = annual average wholesale price in year y for supply source 1.

 p_{y_2} = annual average wholesale price in year y for supply source 2.

pon = annual average wholesale price in year o for supply source 1.

po2 = annual average wholesale price in year o for supply source 2.

q₁ q₂ = base-period quantities as weights for wholesale prices of supply source 1, 2, ...

26/ This method is used by the Production and Marketing Administration in computing monthly average wholesale prices of fruits and vegetables at New York City and Chicago. See Walsh, Lillian, Wholesale Prices of Fresh Fruits and Vegetables, and Auction Prices of Fresh Fruits at New York City and Chicago and f.o.b. Prices at Leading Shipping Points, by Months, 1951.

From the standpoint of seasonal variation, the index of prices for this period is somewhat conservative, as potato prices in the first 6 months of any year are typically higher than those in the last 6 months. 27/But the cyclical downward movement of potato prices in the first half of 1953 more than offset the upward bias in prices caused by the seasonal factor.

Whether the wholesale price index of potatoes for 1953 is above or below the index for the first 6 months is not relevant to this study. However, all evidence indicates that the 1953 wholesale price index of potatoes for the entire year will be substantially below the 1952 wholesale price index, and thus well below the 1953 freight-rate index.

Variations in the Wholesale Price Index

Although the variations in the index numbers of wholesale prices of potatoes among the large markets are somewhat greater than the variations in the index numbers of freight rates, each market has followed the same general pattern of increases and declines in prices (table 9).

The variations in the price indexes among the nine markets are caused by differences in income, consumer preference, and rate levels. As the selected markets are rather widely dispersed throughout the country, regional differences in the factors mentioned above would be reflected in the wholesale price levels of the respective cities. Whether any one of these factors has greater influence in one market than in another is difficult, if not impossible, to ascertain. It is more likely that the price levels are the result of the interaction of all three forces.

For example, the lower price indexes in Boston and New York from 1950 to 1953, with the exception of 1952, may reflect the relatively lower freight-rate increases on potatoes for these cities compared to the others in the study. 28/

^{27/} For example, only in 1947 and 1950 were the wholesale prices of potatoes in each of the nine markets lower in the first half of the year than in the last half.

^{28/} The very high price level of potatoes in Boston in 1952, followed by an extremely sharp decline in the first half of 1953, reflects the uncertain market conditions that have faced Maine growers in the last several months. Prices of potatoes began to weaken as early as the late summer of 1952. (The annual average wholesale prices as shown by the price indexes does not indicate this fact, as the high prices in the first half of 1952 tended to offset the later price decline.) Maine potato growers held over large stocks of their 1952 crop in anticipation of higher prices in the first half of 1953. But with a large crop from the early States in 1953, prices of Maine Potatoes declined sharply.

Table 9.- Index numbers of wholesale prices of potatoes, 9 selected markets, 1946-53 1/

| | | | - | | | | | |
|---------------|------|--------|------|------|----------------------------|------|------|---------|
| Market | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 2/ |
| Boston | 677 | 7/6 | 106 | 100 | 23 | 85 | 147 | 78- |
| New York | 85 | 716 | 105 | 101 | 7 | 778 | 146 | 93 |
| Atlanta | 100 | න ල | 66 | 103 | | 100 | 146 | 86 |
| New Orleans | 85 | 46 | 104 | 66 | 5) 1, 15 0, 1 | 46 | 139 | 118 |
| Cleveland | 06 | 96 | 110 | 26 | 398 | 83 | 144 | 102 |
| Chicago | 77 | . 56 | 104 | 101 | 82 | 95 | 134 | 26 |
| St. Louis | . 32 | 95 | 104 | 101 | | 92 | 139 | 66 |
| San Francisco | . 85 | 66 | 107 | 63 | 85 | 46 | 128 | 104 |
| Los Angeles | . 85 | 66 | 105 | 96 | 80 | 83 | 132 | 110 |
| | | | | | | | | |
| | | | | | | | | |

1/ Includes wholesale prices in less than carTot quantities of U. S. No. 1 size, generally grade A.

2/ Based on first 6 months of 1953.

The relatively high price level of potatoes in Atlanta in the postwar period (with the exception of the first 6 months of 1953) may also reflect its high rate level relative to the base-period 1947-49. The substantial decline in the 1953 price level for Atlanta is largely the result of a sharp drop in prices of potatoes from Maine, New York, New Jersey, and California. All of these States are major suppliers in the Atlanta market.

The smaller price decline for the New Orleans market in the first 6 months of 1953 in contrast to the other major cities reflects the importance of Idaho potatoes in this market. Apparently because of certain tangible and intangible factors encompassed in the term "consumer preference," the demand for potatoes from Idaho has not declined as greatly during the last 6 to 10 months as have potatoes from other major sources of supply.

Trends in Freight Rates and Wholesale Prices Since World War II

This study recognizes that freight rates are only one of the many costs which confront producers and that in some cases they are substituted for other costs of production, nevertheless a comparison of freight rates and prices over a period of time indicates the degree to which costs of movement to market affect the economic position of the farmer.

Figure 2, which shows freight rates and wholesale prices of potatoes, illustrates the one-way flexibility of freight rates. In the 3 calendar-years 1949-51, and in the first half of 1953, the level of freight rates (compared to the base-period 1947-49) was well above the level of prices. 29/

Since 1949 increases in freight rates on potatoes have surpassed increases in wholesale price in each year except 1952. In 1952 the unusually high potato prices were brought about primarily by critically small crops in the 29 late States in 1951, and in the intermediate States in 1952. 30/A quick return to a much lower price level is indicated by the sharp decline in potato prices during the first 6 months of 1953. Although this rate of

^{29/} It should be noted that during World War II freight rates were held down to a relatively low level compared to the price levels of most farm products. But it should also be noted that from 1920-40, the index of farm prices of all farm products (1924-29 = 100), was below the index of freight rates on these products in all but 5 of the years in that period. An index of freight rates and an index of prices to growers of potatoes applied to this period showed the same results as the indexes on all farm products. For further detail on these indexes see Matlock, Clifford C., Trends in Railroad Traffic, Freight Rates, and Prices, Perishable Agricultural Commodities, United States. Bur. Agr. Econ. May 1941.

^{30/} The 1951 crop for the 29 late States of approximately 255 million bushels was 26 percent below the 1950 crop and 21 percent below the average 1940-49 crop. Likewise, the 1952 crop for the 7 intermediate States of approximately 14 million bushels was 31 percent below the 1951 crop and 53 percent below the average 1941-50 crop.

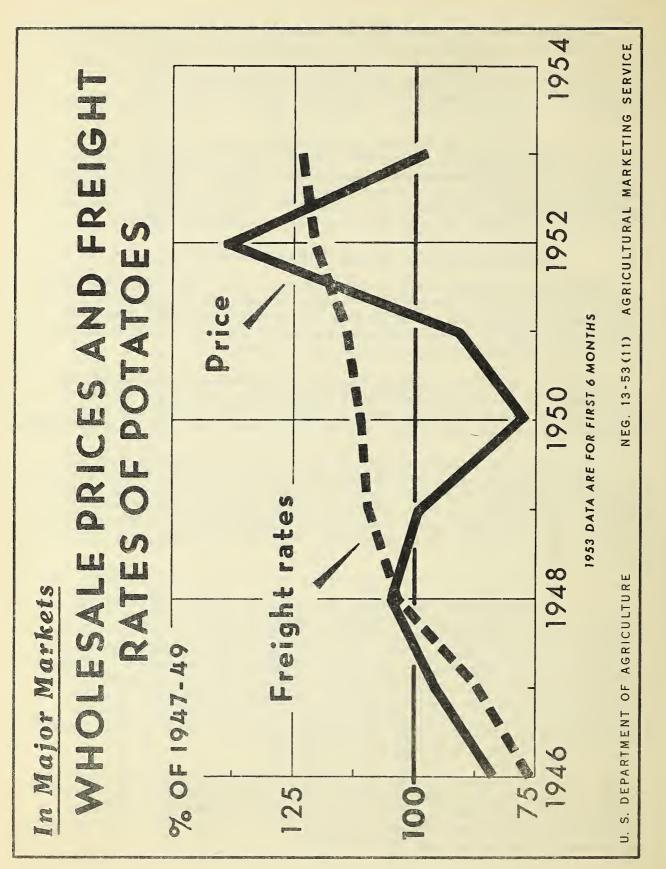


Figure 2

decline is not generally expected to continue throughout the rest of the year, no doubt wholesale prices for the calendar-year 1953 will be substantially below those of 1952.

The rigidity in freight rates (as displayed by figure 2) leads to serious difficulties for producers and shippers in a period of depressed prices, especially for such a commodity as potatoes, to which freight rates represent a substantial proportion of the wholesale price.

Incidence of Changes in Freight Rates Upon Producers and Consumers

Changes in freight rates have important economic effects upon producers and consumers. Generally speaking, increases in transportation costs tend to raise prices to consumers and to decrease returns to growers. But as all rates do not rise by the same amount, the various markets and producing areas are affected differently, and a whole new equilibrium or balance of production, consumption, shipments, and price relationships is established. Producers in various supply areas may be affected differently. Typically, those at the greatest distance from the consuming market, for whose products freight rates are an important element in total marketing costs, are more or less disadvantaged while nearby growers may find their competitive position improved. Adjustments to changes in price usually require considerable time in which to work out their full effects, so the incidence of increased transportation costs may differ considerably between the short and the long run.

As indicated earlier in this report, most important urban consuming markets receive potatoes from several producing areas, some at a considerable distance, others nearby. The first effect of a rise in transportation rates is to add an additional charge to those already involved in moving the product from the point of production to the consumer. Assuming that marketing charges other than those for transportation do not change, this widening of the total spread must result in an increase in prices to consumers or a decrease in returns to growers, or perhaps in some of each. Relative elasticities of demand and supply are important. If consumers continue to buy about the same quantities of potatoes in the face of rising prices there will be a tendency to pass most of the increased costs of transportation on to consumers. But if consumers resist higher prices by curtailing consumption the tendency will be to pass the higher transport costs back in the form of lower prices to the producer.

Alternative sources of supply available to buyers and alternative markets to which growers may ship influence the incidence of rate increases. When wholesalers and other middlemen find that they must incur higher costs of transportation to obtain potatoes from distant producing areas they tend to direct demand toward nearby sources of supply, thus raising their prices. However, if these nearby sources are small in relation to the total, it is still necessary to obtain most of the supply from the more distant areas. If the more distant

NO THE PART OF THE

areas have alternative markets that are closer, or if their transportation costs to the alternative markets have not been raised or have been raised relatively little, they tend to divert shipments to these markets. In this case, the tendency is to pass on to consumers in the initial market a large part of the increased transportation charge, and a relatively small part must be absorbed by the distant producer. Nearby producers, however, will benefit from the higher market prices that will prevail. Effects are the inverse if distant producers do not have attractive alternative market outlets and must continue to ship to the same market or markets, notwithstanding increased transportation charges.

The relative importance of a particular source of supply affects incidence. If a distant area supplies only a small percentage of the total supply of potatoes, a reduction in its contribution or its elimination as a source of market supplies affects prices very little. But another area that is a major supplier affects prices in a market appreciably if it diverts an important part of its shipments to other and more profitable outlets following a rise in costs of movement to its former markets.

The discussion in the preceding paragraph was primarily in terms of what happens in the short run, as in the course of a single season. In the longer run both consumers and producers probably make basic adjustments to changed price relationships. If prices are raised significantly consumers may shift to substitutes for potatoes. More likely, as potatoes are not a completely homogeneous commodity, consumers whose preference has been for potatoes from a particular supply area, say Idaho or Maine, may shift to a cheaper source. On the supply side, nearby producers, whose returns from potato production have been increased, expand output to the extent that additional resources are available or can be diverted profitably from other lines of production. More distant areas that have suffered reduced returns shift to farm enterprises other than potatoes to the extent that these profitable alternatives are available. Thus, an increase in costs of transportation, given a period of time in which to work out its effects, not only brings further changes in consumption, but may result in important shifts in production which, to the extent that production in the more distant areas is reduced, tend to decrease the overall demand for transportation services.

Economists have long recognized that the general nature and direction of the economic effects of increased transportation charges are as outlined above. However, the statistical measurement and verification of these effects have always been difficult. Several factors are involved and some require time for their effects to become apparent. New influences frequently superimpose upon the old before the latter have fully taken effect. Extraneous developments enter in, such as fluctuations in the size of crops or changes in the general price level. These obscure the influence of the forces even while an attempt is being made to measure them. However, developments in the Chicago market between 1946 and 1952 with respect to potatoes from Idaho and Wisconsin were in line with what economists would have expected the influence of higher transportation rates to be during that period.

r plante se recepto se estado **do construcç**oi en brunçació. Lo recita especia de estados en la construcción de construcción de estados en la construcción de construcción de estados en la construcción de estados en l In table 10 the net advantage that Idaho had in the St. Louis market as compared to Wisconsin in 1946 had largely disappeared by 1953 due partly, at least, because of the increase in the rate differential that reduced prices of Idaho potatoes relative to Wisconsin. This shifting in the freight rate and price differentials was no doubt largely responsible for the increase in unloads of Wisconsin potatoes and the decline in carlot unloads of Idaho potatoes in St. Louis . In 1946 le percent of the St. Louis potato supply, as measured by carlot unloads, came from Wisconsin and 23 percent from Idaho. By 1952, 7 percent of the total came from Wisconsin and 19 percent from Idaho. At the same time, total production in these States during 1952 approximated the previous 6-year average.

the emission of a state of the conservation of the conservation of the conservation of Table 10. Freight rate, wholesale price and differential per 100 pounds of potatoes, by local and long distance producers, St. Louis,

| make ex debakketes | | 1946 | |
|---------------------------------------------------|-------------------------|-----------------|------------------------------|
| State of origin | Freight rate <u>l</u> / | Wholesale price | Return above freight rate |
| รีเรียน์ เทาร์ ระ และวัก โทธิ์กรรณ์ เกาะ พิเศษ | <u>Dollars</u> | <u>Dollars</u> | Dollars |
| Wisconsin Idaho | 0.30 | 2.70 3.53 | 2.40 2.84 |
| Differential | •39 | | of the same |
| Appropriate the second of the second | | 1953 2/ | |
| Wisconsin | . 52 | 4.83 | 4.31 |
| Idaho Differential | .62 | 5,35 | .10 |

Average freight rate weighted by number of days in effect.

Park therefore and the set there the entropy of a transmission could be explicated and a complete the entropy of the entropy o

But the second

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Property

1 30 2

^{2/} First 6 months of 1953.

An indication of the growing importance of freight rates as a factor affecting returns to growers is given by comparing freight rates as a percentage of wholesale price in 1946 and in the first half of 1953. 31/

Table 11 shows that the ratio of freight rates to wholesale prices at destination has increased from nearly all supply sources.

In only 3 sources of supply of a total of 84 for the 9 cities did freight rates as a percentage of the wholesale price of potatoes show a decline in the first 6 months of 1953 compared to 1946. Of these 3, Idaho in New York City and Utah in Los Angeles declined by only 2 percent, while the decline in freight rates as a percentage of the wholesale price for Nebraska potatoes sold in Cleveland was only 1 percent.

In 1946, freight rates as a percentage of the wholesale price of potatoes for principal suppliers in the nine cities ranged from 5 to 36 percent. For the first 6 months of 1953, this ratio of freight rates to wholesale prices in these cities ranged from 6 to 49 percent. The increasing importance of freight rates when prices are declining is also aptly illustrated by the data contained in table 11.

In the case of California potatoes sold in Boston, the 40-percent increase in freight rates followed by a 15-percent decline in the 1953 price compared to 1946, resulted in the freight rate equaling nearly

31/ Beginning with 1928, the Interstate Commerce Commission uses a similar analysis in estimating the relation between gross freight revenues of class 1 railways and the wholesale value at destination of the commodities transported by them.

A comparison of the gross freight revenue as a percentage of whole-sale value at destination is given below for products of agriculture and for potatoes in 1946 and 1950 (the latest study).

| Commodity group or class | Percentage freight at desti | |
|-------------------------------------|-----------------------------|------------------------|
| , , | 1946 <u>Percent</u> | 1950 <u>Percent</u> |
| Products of agriculture Potatoes | 5•58 17 •39 | 6.33 24.80 |

Although these percentage increases in products of agriculture and potatoes do not take into account changes in length of haul, they do indicate in a general way the importance of changes in freight rates as factors affecting farmers and consumers. On the other hand, changes in length of haul do not materially affect the computations in table 11, as point-to-point comparisons were used.

Table 11. - Freight rate, wholesale price and percentage change per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946 and 1953

| | | 1,157.57 |) Asinain | - 745 % f | Boston | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|--------------|--------------|--------------------------------------------------|---------------|------------|
| 11 12 12 12 12 12 12 12 12 12 12 12 12 1 | * | Rate | andrije - Williag bergana andre ette eng | - | Price | g. Charlestoned Mahamat of Amiliana | Rate as p | er- |
| Source of | A The second sec | | Per- | | | | centage of p | |
| supply | :1946 1/ | :1953 2/ | centage: | : 1946 : | :1953 2/ | centage: | 1946 195 | |
| the same and a contact | | : | change: | 表现111章- 11· | : : | : change: | . 140 17) | |
| the management of the second | :Dollars | Dollars | Percent. | Dollars | Dollars | Percent | Percent Per | cent |
| ** | : | | | | | | • | |
| Maine | 0.38 | 0.50 | 32 | 2.79 | | - 17 | 14 50 | 22 |
| California | : 1.30 | 1.82 | 70 | 4.36 | 3.71 | - 15 | 30 | 49 |
| Virginia | : .42 | .76 | 81 | 3.05 | 2.90 | 5 | . 14 | 26 |
| Florida | : .79 | 1.31 | 66 | 4.99 | 4.40 | - 12 | * 16 · · | 30 |
| North Carolina | • | .87. | 81 | 2.94 | 2.89 | -): 2 | 16 | 30 |
| Idaho | 1,111. | 1.63 | 47 | 4.13 | 5.72 | 3 8 | > 27 | 28 |
| the destination of the second | Tradescape of the Control of the Con | | | New Yo | rk City | , /, | | |
| | | 5. | - T | Vi y | | - /- | | 1 . |
| New York | : .214 | .43 | 79 | 2.51 | 3.22 | 2.8 | 10 M | 13 |
| Maine | : .48 | .76 | 58 | 3.24 | 2.76 | - 15 | : 15 | 28 🕆 |
| California | : 1.30 | 1.82 | 4C | 4.22 | 4.09 | - 3 | : 31 | 44 |
| Florida | : .72 | 1.22 | 69. | 4.91 | 4.47 | - .9 | | 27 |
| Idaho | : 1.09 | 1.61 | 48 | 3.94 | 6.08 | 54 | ; 28 | 26, |
| Virginia | : .32 | • 59 | 84 | 2.79 | | - 12 | | : 24 ·· |
| North Carolina | : .41 | .71 | 73 | 2.85 | 2.67 | - 6 | 14 | 27 |
| | · | | | | 17.0 | | <u> </u> | |
| | - | | - | | anta | | | |
| Mata | | 3.35 Or | P.O. | 34 | 0 60 | 10 | 93 | 10 |
| Maine Florida | : .90 | 1.42 | 58 | 4.27 | 3.53 | - 177 - 20 | ; 21 a ; 8 | 48. 18. |
| Idaho | : .43 | .76. | .77 50 | 5.12 5.44 | 4.12 5.71 | 2U | 19 | 27 |
| New Jersey | 57 | | | 2.92 | 3.36 | 15 | | 30 |
| Georgia | : .20 | .36 | & <i></i> 80 | 3.05 | 2.64 | - 13 | 7 | 14 |
| Alabama | : .30 | .55 | 83 | 3.54 | 2.84 | - 20 | 8 | 19, |
| MinnN. Dak. | 84r | 1.42 | 69 | 3.36 | 5.26 | 5.7 | 25 35 | 27 |
| New York | : .63 | 1.10 | : 75 | 3.77 | 3.61 | - J.1 | | 30 |
| California | 1.23 | 1.75 | 1,2 | 5.27 | 4.10 | 22 | 23 | 43 |
| Tennessee | : 30 | • 55 | . 83 | 2.92 | 3.00 | 3 | | 18 |
| South Carolina | | .41 | 71 | 3.27 | 2.32 | - 29 | 7 | |
| Wisconsin | : .67 | 1.16 | .73. | 3:78 | 3.50 | -17.7 | . 18 | 33. |
| North Carolina | : .49 | .88 | 80 | 3.00 | 2.68 | 11 | . 16 | 33 |
| | | | | | | | .4. | . ! |
| | • | = 4 | | New (| rleans | | | |
| Colomodo | | 1 01 | 610 | 2:22 | 1 177 | | 1 22 | .00 |
| Colorado Idaho | . 74 | 1.21 | 641. | 3.33 | 4.47 | 34 | 22 1519 | |
| Nebraska | : .88 | 1.40 | 59 | 3.89 | 5.71 | 47 | 23 / 21 | 25 26 |
| California | | 1.21 1.40 | 64 59 | 3.53 | 4.26 | 31 8 | 22 | 33 |
| Wisconsin | : .66 | 1.12 | 79 70 | 3.96 3.10 | 4.85 | 56 | 21 | 23 |
| Tocomotti | : | 4044 | 70 | J 0 1 U | 4007 | 70 | ~ | ~) |
| The state of the s | | | | | | | Continue | d |

Table 11.- Freight rate, wholesale price and percentage change per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946 and 1953-Continued

| | | | New | Orlean | s (Contd | .) | | |
|--------------------------|---------------------------------------|-------------------|-----------|-----------------------------|--------------|-----------------------------------------|-----------|----------|
| | | Rate | 197 | | Price | | · Rate a | |
| Source of | .701/ 7/ | | Per- | | | | centage o | |
| supply | 1940 1/ | 1953 <u>2</u> /:c | change: | | | centage: | | 1953 2/ |
| Property of Property | Dollars | Dollars P | ercent | Dollars | Dollars | Percent | Percent | Percent |
| | • | | | * . | | | | , |
| New York | 0.79 | 1.31 | 66 | 3.42 | 4.00 | .17 | 23 | 33 |
| Florida MinnN. Dak. | .58 .82 | 1.03 1.33 | 78 62 | 6.32 3.17 | 4.74 3.40 | - į.25 7 | 26 | 22 39 |
| Washington | .94 | 1.46 | 55 | 4.26 | 5.20 | 22 | 22 | 28 |
| 3.5 4 | 1.06 | 1.58 | 49 | 2.96 | 3.75 | 27 | 36 | 42 |
| | · · · · · · · · · · · · · · · · · · · | | | Cleve | land | | | |
| tar in the region of the | | | | 0.2000 | 20114 | | | |
| Maine | .70 | 1.18 | 69 | 3:36 | 3.34 | - 1 | 21 | 35 |
| | 1.14 | 1.66 | 7 46 | 4.34 | 3.98 | - 8 | 26 | 42 |
| New York Idaho | •44 •92 | .80 1.44 | 82 57 | 2.55 3.87 | 2.98 5.82 | . 50 | . 17 | 27 25 |
| Florida | .76 | 1.27 | 67 | 5.27 | 4.59 | - 13 | 14 | 28 |
| Virginia | .44 | .78 | 77 | 3.14 | 3.15 | 3/ | 14 | 25 |
| Alabama : | .68 | 1.17 | 72 | 3.58 | 3.89 | . 9 | 19 | 30 |
| North Carolina: | - 1-7 | .88 | 80 | 3.10 | 3.00 | - 3 | . 16 | 29 |
| South Carolina: | | 1.07 | 75 | 3.54 | 3.30 | - 7 | 17 | 32 |
| Pennsylvania Nebraska | .29 | .53 1.33 | 83 | 3.06 | 3.04 | - 1 76 | 9 | 17 |
| Arizona | 1.14 | 1.66 | 64 46 | 3.20 4.10 | 5.62 4.32 | 5 | 25 28 | 24 38 |
| MinnN. Dak. | / - | 1.02 | 70 | 2.93 | 4.27 | 46 | 20 | 24 |
| * | | | | | | | | |
| | | | - | <u>oni</u> | cago | | | |
| Idaho | •75 | 1.26 | 68 | 3.28 | 5.03 | 53 | 23 | 25 |
| California : | . 94 | 1.46 | 55 | 3.62 | 3.23 | - 11 | 26 | 45 |
| Colorado : | .62 | 1.08 | 74 | 2.95 | 3.96 | 34 | 21 | 27 |
| MinnN. Dak. Nebraska | .41 | .74 | 80 | 2.22 | 3.19 | 44 | 18 | 23 |
| Wisconsin | .52 | · .92 ·37 | 77 76 | 2.89 2.12 | 4.62 2.86 | 60 | 18 | 20 13 |
| Alabama | .63 | 1.10 | 75 | 3.59 | 3.50 | 35 | 18 | 31 |
| Texas | .83 | 1.10 1.38 | 66 | 2.80 | 3.36 | 20 | 30 | 41 |
| Florida : | .75 | 1.25 | 67 | 5.53 | 4.68 | - 15 | 14 | 27 |
| Oregon : | .89 | 1.42 | 60 | 2.92 | 4.10 | 40 | 30 | 35 |
| Arizona : | •94 | 1.46 | 55 770 | 3.37 | 3.57 | · · · · · 6· · | 28 | 41 |
| Louisiana : | .71 | 1.22 .62 | 72 82 | 3.87 2.10 | 3.52 3.55 | . - 9 : | 18 16 | 35 17 |
| Tolliedii | • 74 | ٠٠٠. | . 02 | ~ • .LU | 2000 | 09. | | Τ/ |
| | | | | and the same of the same of | | *************************************** | Conti | muod |

Table 11.- Freight rate, wholesale price and percentage change per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946 and 1953-Continued

| स्तिस्ति | •, | | | St. | Louis | | | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|---------------|----------|
| | | Rate | Andrewson of the second | The residence of the second se | Price | | Rate | as per- |
| Source of | | | : Per- : | | • | Per- :c | <u>entage</u> | of price |
| supply | :1946 1/ | :1953 2/ | centage: | 1946 | :1953 2/ | centage: | 1946 | 1953 2/ |
| | - | | change: | - | - | change: | | • |
| | Dollars | Dollars | Percent | Dollars | Dollars | Percent P | ercent | Percent |
| Idahò | 0.69 | 1.14 | 65 | 3.53 | 5.35 | 52 | 20 | 21 |
| Nebraska | : .48 | .80 | | 3.11 | 4.07 | 31 | 15 | 20 |
| California | . 88 | 1.40 | 59 | 3.87 | 3.57 | - 8 | 23 | 39 |
| MinnN. Dak. | .46 | .83 | 60 | 2.76 | 3.37 | 22 | 17 | 25 |
| Alabama | : .48 | .86 | 79 | 3.57 | 3.16 | - 11 | 13 | 27 |
| Colorado | : .56 | .94 | 68 | 2.97 | 1,.39 | 48 | 19 | 21 |
| Texas | : .66 | 1.10 | 67 | 4.71 | 4.85 | 3 | 14 | 23 |
| Arkansas | : .46 | .82 | 78 | 2.96 | 3.08 | 4 | 16 | 27 |
| Louisiana | : .62 | 1.03 | 66 | 3.72 | 3.58 | 4 | 17 | 29 |
| Florida Wisconsin | : .71 : .30 | 1.22 .52 | 72 73 | 5.63 2.70 | 4.80 | - 15 79 | 13 11 | 25 11 |
| MTRCOURTH | • • • • • • • • • • • • • • • • • • • • | مر _ه | () | 2.00 | 4.83 | 19 | 7.7 | 77 |
| | TO AND ADDRESS OF THE PARTY OF | | | San Fr | ancisco | | | |
| | : | | | | | | | |
| California | : .20 | •33 | 65 | 3.48 | 3.75 | . 8 | 6 | 9 |
| Oregon | : .36 | • 59 | 64 | 3.40 | 4.75 | 40 | 11 | 12 |
| Idaho Nevada | • .50 • .52 | .86 .89 | 72 71 | 3.69 3.26 | 5.25 | 42 3 8 | 14 16 | 16 20 |
| Florida | 1.33 | 1.85 | 39 | 7.35 | 4.50 6.09 | - 17 | 18 | 30 |
| 1 101 1 dd | • ±•// | 1.07 | 27 | (0) | 0.09 | - +1 | 10 | J0 |
| | | | A the same of the | Los An | geles | | | |
| 0-1:0: | | 0.5 | 10 | 0.01 | 0.00 | 0.0 | | , |
| California Idaho | : .15 | .25 | 67 | 3.26 | 3.92 | 20 | 5 | 6 |
| Utah | .48 .46 | .82 .52 | 71 13 | 3.33 3.20 | 4.82 4.32 | 45 3 5 | 14 14 | 17 12 |
| Oregon | : .43 | .70 | 63 | 3.28 | 4.47 | 36 | 13 | 16 |
| Florida | 1.33 | 1.85 | 39 | 6.89 | 5.77 | - 1 6 | 19 | 32 |
| Nevada | : .40 | .61 | 52 | 3.75 | 4.58 | 22 | īí | 13 |
| | | ndillah gara hill-ri og sedera vegsalang egsalar | | | | | - | |

Annual average freight rate weighted by number of days in effect. First 6 months of 1953.
Less than 0.5 percent.

half the wholesale price. In both Chicago and Atlanta, the ratio of freight rates to wholesale prices for California potatoes is only slightly less than that in Boston. A similar pattern of sharply rising ratios of freight rates to wholesale prices is indicated for other origins in the same or different markets.

In the first 6 months of 1953, potatoes from almost half of the sources of supply (35 of a total of 84) have sold at wholesale prices below those of 1946.

Even for potatoes from such States as Idaho, Nebraska, Colorado, Minnesota, and North Dakota, în which wholesale prices of potatoes in the nine markets in the first 6 months of 1953 were still well above the 1946 wholesale price level, the increase in freight rates has exceeded the increase in wholesale prices. As a result, the ratio of freight rates to wholesale price has continued to expand.

APPENDIX

Table 12.- Boston: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| months and a second sec | | | management reserves | | | - | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|------------------------|
| Source of supply and type of carrier | | 1947 1/ | 1948 <u>1</u> / | 1949 | 1950 | 1951 | 1952 |
| | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Truck | 132 | 3,203 318 3,521 | 418 | 1,953 1,053 3,006 | 2,531 514 3,045 | 3,094 536 3,630 | 1,054 |
| 1 | 1,033 16 1,049 | • | 228 370 / 598 : | | 60 701 761 | 819 | 23 858 881 |
| California Rail Truck Total | 523 1 524 | | 650 | | | 441 | 445 |
| Virginia Rail Truck Total | L. | 357 5 362 | TO3 | . 307. | L7O | 121 155 276 | 204 |
| Florida Rail Truck Total | 233 1 234 | 66 | 79 79 | | 9 | 237 3 240 | 221 7. 16 7. 237 |
| North Carolina Rail Truck Total | 160 5 165 | 221 | 99 18 117 | 112 62 174 | 31 42 73 | 65 66 131 | 29 |
| South Carolina Rail Truck Total | 118 118 | 73 1 74 | 24 1 25 | 12 2 14 | 10 4 14 | | 53 12 65 |
| Idaho Rail Truck Total | 97 97 | 17 17 | 26 3 29 | 42 | 6 3 1 64 | 116 116 | 223 223 |
| Washington Rail Truck | 93 | 99 | 31 | 73 | 62 | 7 8 | 74 |
| Total | 93 | 99 | 31 | 73 | 62 | 78 | 74 |
| | nagariti sarahajintu sikrawa angabiba yi | water and the second second second | | | | Col | ntinued |

Table 12.- Boston: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| Source of | | 1946 | 19/7 1/ | 1948 1/ | 1949 | 1950 | 1951 | 1952 |
|----------------------------------------|---------|-----------------------|-----------------------|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|
| and type of | carrier | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Massachusett Rail Truck Total | s | 50 | 83 83 | 47 11 58 | 40 62 102 | 121 71 192 | 32 7 39 | |
| Rhode Island Rail Truck Total | | 1 7 8 | 1 | 394 395 | 248 248 | 130 130 | 69 69 | 158 158 |
| Nearby truck Rail Truck Total | | 411 411 | 414 | 186 186 | 153 153 | 522 522 | 306 306 | 185 185 |
| Canada Rail Truck Total | | 404 | 1,056 | 1,046 41 1,087 | 362 41 403 | 392 74 466 | 532 113 645 | 182 58 240 |
| Other Rail Truck Total | | 257 32 289 | 113 66 179 | 83 118 201 | 60 45 105 | 56 78 134 | 28 96 124 | 66 39 105 |
| Total Rail Truck Grand to | tal | 6,977 609 7,586 | 6,441 903 7,344 | 5,034 1,663 6,697 | 3,774 2,338 6,112 | 4,378 2,136: 6,694: | 4,829 2,178 7,007 | 4,458 2,613 7,071 |

^{1/} Boat receipts included in rail.

3.28

Table 13.- New York: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| | | 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
|----------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------|-----------------|---------------------------------------|-----------------|
| Source of supply | | 1947 1/ | 1948 | 1949 1/ | 1950 <u>1</u> / | 1951 <u>1</u> / | 1952 <u>1</u> / |
| and type of carrier | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| 37 - 37 - 1 | | | S. fr | | 1 | | |
| New York Long Island | | | | | : | | |
| Rail | 815 | 633 | 32 | 3 | . 9 | 3 8 | 12 |
| Truck Total | 8,103 | | | | 8,619 | | 6,870 |
| TOUAL | C STO | رهانو و ۱۰ | 10,399 | 8,877 | 18,628 | 7,554 | , 0,000 |
| Other | 3.70 | 0.77 | 01 | | : | _ | |
| Rail Truck | 17 | 37 6 | 26 63 | 42 387 | · 4 | 271 | 26 |
| Total | 30 | .43 | 89 | 429 | | 272 | 30 |
| Total | * 1 () g + 1 () | Milke V. S. | , . | | | <i>\$</i> * | |
| Rail'. | 832 | 670 | 5 8 | 45 | . 13 | 3 9 | 16 |
| Truck : | 8,116 | 9,056 | | | | | 6,896 |
| Total New York | 8,948 | 9,726 | 10,488 | 8 ,3 06 | 8,724 | 7,826 | 6,912 |
| Maine : | - 00° | | - 07/ | (0.0 | | ,41 | (ao = |
| Rail Truck | 5,036 21 | 4,604 | 5,376 4 | 6,343 104 | 8,241 134 | 5,693 57 | 6,825 57 |
| Total : | 5,057 | 4,612 | 5,380 | 6,447 | 8,375 | 5,750 | 6,882 |
| California | | | | | •, | | |
| Rail | 1,637 | 1,715 | 1,676 | 1,739 | 1,681 | 1,063 | 1,111 |
| Truck : | 1,637 | 7 77 5 | 7 676 | 7 720 | 3 603 | 1 062 | 1 112 |
| rotar : | 1,00/ | 1,715 | 1,676 | 1,739 | 1,681 | 1,063 | ≈لللو ل |
| Florida : | 7 | | cón. | | #1.0 | , • a, i | |
| Rail : | 1,549 | 744 3 | 8 27 11 | 676 183 | 540 170 | 525 217 | 487 284 |
| Total | 1,556 | 747 | 838 | 859 | 710 | 742 | 771 |
| Idaho | : | | · | | | ٠. | |
| Rail : | 1,305 | 1,160 | 1,088 | 1,609 | 1,691 | 1,927 | 1,591 |
| Truck : Total : | 7 205 | 1,160 | 1,088 | 3 | · 4 | 7 027 | 1 501 |
| | 1,305 | тоО. | T 000 | ± ₀ Ο⊥~ ; | . 1,695 | 1,927 | 1,591 |
| Virginia : | 00 = | 30/6 | 0.00 | 1.1 | | 3 | 3.0 |
| Rail : | 335 826 | 267 669 | 1,290 | 12 1,319 | 1,118 | 1,120 | 12 761 |
| Total | 1,161 | 936 | 1,327 | | | 1,121 | 773 |
| | *************************************** | | entrigation (en aprecipios de la ligación de la lig | | | Co | ntinued |
| | | | | | | | |

Table 13.- New York: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| Source of supply and type of carrier | | 1947 <u>1</u> / | 1948 | 1949 <u>1</u> / | 1950, <u>1</u> / | 1951 <u>1</u> / | 1952 1/ |
|------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|
| | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| North Carolina Rail Truck Total | 322 418 740 | 354 499 853 | 135 414 549 | 36 591 627 | 22 209 231 | 48 394 442 | 35 370 405 |
| South Carolina Rail Truck Total | 504 41 545 | 313 26 339 | 85 31 116 | | 87 92 1 7 9 | 184 95 279 | 55 39 94 |
| Washington Rail Truck Total | 223 223 | 278 278 | 126 126 | 334 | 336 336 | 266 266 | 332 3 335 |
| New Jersey Rail Truck Total | 17 198 215 | 177 227 404 | 41 116 157 | 6 157 163 | 1 36 37 | 113 113 | 46 46 |
| Oregon Rail Truck Total | 71 . –– 71 | 83 83 | 122 | 212 | 130 | 147 | 98 98 |
| Canada Rail Truck Total | 52 52 | 817 | 771 771 | 685 33 718 | 212 49 261 | 499 16 515 | 122 |
| Other Rail Truck Total | 427 65 492 | 458 278 736 | 247 599 846 | 209 628 837 | 218 506 724 | 238 413 651 | 856 223 1,079 |
| Total Rail Truck | 12,310 9,692 22,002 | 11,640 10,766 22,406 | 10,589 12,895 23,484 | 11,987 11,421 23,408 | 13,176 11,029 24,205 | 10,630 10,212 20,842 | 11,540 8,680 20,220 |

^{1/} Boat receipts included in rail.

Table 14.- Atlanta: Unloads of potatoes, by source of supply; and by type of carrier, 1946-52

| | | - Interior de la constitución de l | | • 4 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Source of sup and type of car | ply: 194 | 6 : 1947 | 1948 | 1949 | 1950 | 1951 1952 |
| the many transfer on a frequency to the | Car | s Cars | Cars | Cars | Cars | Cars Cars |
| Maine Mail Truck Total | 33 | 2 1 | 254 5 259 | 140 10 150 | 42 | 75 21.2 52 120 127 332 |
| Florida Rail Truck Total | 12 1.5 27 | 1 134 | 59 178 237 | 48 317 365 | 416 | 10 23 400 555 410 578 |
| Idaho Rail Truck Total | 25 | 7 //11 | , 271 1 272 | %416 %2 418 | 454 | 515 503 2 8 517 511 |
| New Jersey Rail Truck Total | 20 3 23 | 4 ,180 | 7/41 7378 7419 | 469 476 | : . 6 . 31/4 . 320 | 42 536 400 578 400 |
| Truck | 3 17 21 | 7 172 | 100 100 110 | 10 143 153 | 7 : 106 : 113 | 6 2 64 54 70 56 |
| Alabama Rail Truck Total | 15 19 | 3 1,28 (| 21 325 346 | 244 251 | 3 321 324 | 3 11 229 180 232 191 |
| North Dakota Rail Truck Total | 13 | 6 107 3 4 9 111 | 198 7 205 | 129 1 1 3 0 | : 43 2 45 | 23 30 1 18 24 48 |
| New York Rail Truck Total | 10 | 2 | 37 73 110 | -57 57 | 95 314 409 | 74 3 480 325 554 328 |
| THE STATE OF THE S | Allendaring accounts of the contracting co | | - | per reprint the definition of the second section of the second sec | a deputemble of the state of th | Continued |

Table 14.- Atlanta: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | 7 | - | | | | | | |
|-----------------------------------------|------|----------------|--------------------------|----------------------------------|----------------------------|--------------------------|------------------|------------------|
| Source of s | | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| | | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| California Rail Truck Total | | 100 | 115 | 125 125 | 161 161 | 180 6 | 122 | 155 1 156 |
| Tennessee Rail Truck Total | : | 25 58 83 | 36 61 97 | 37 118 155 | 1 105 106 | 52 | 30 30 | 49 49 |
| South Carolir Rail Truck Total | na : | 43 30 73 | 27 27 54 | 13 31 44 | 3 100 103 | 1 113 114 | 1 79 80 | 10 139 149 |
| Wisconsin Rail Truck Total | | 68 2 70 | 27 4. 31 | 51 4 55 | 136 17 153 | 16 1 17 | 42 19 61 | 85 35 120 |
| Minnesota Rail Truck Total | | 68 1 69 | 79 2 81 | 49 2 51 | 66 2 68 | 32 32 | 21 1 22 | · 68 1 69 |
| North Carolin Rail Truck Total | ıa : | 33 24 57 | .56 113 169 | 30 116 146 | 7 171 178 | : : 1 : 94 : 95 | 14 117 131 | 148 148 |
| Colorado Rail Truck Total | | 48 48 | 25 25 | 10 1 11 | 23 1 24 | 22 1 23 | 8 * | 111 11 122 |
| Washington Rail Truck Total | | 45 45 | 3 9 3 9 | 21 ₄ -21 ₄ | 42 - - 42 | 44 | 74 74 | 49 1 50 |

Table 14.- Atlanta: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| Source of supply and type of carrier | | 1947 Cars | 1948 Cars | 1949 <u>Cars</u> | 1950 Cars | 1951 Cars | 1952 <u>Cars</u> |
|--------------------------------------|-------------------------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Pennsylvania Rail Truck Total | 1 | 23 11 34 | 15 112 127 | 8 132 140 | 233 238 | 20 237 257 | 2 143 145 |
| Canada Rail Truck Total | dess seen seen seen seen seen seen seen s | 66 | 35 37 72 | 85 86 171 | 82 168 250 | 17 70 87 | 5 10 15 |
| Other Rail Truck Total | 124 32 156 | 149 63 212 | 140 132 272 | 64 236 300 | 63 207 270 | 73 269 342 | 62 230 292 |
| Total Rail Truck Grand total | 1,787 674 2,461 | 1,729 913 2,642 | 1,420 1,620 3,040 | 1,353 2,093 3,446 | 1,147 2,390 3,537 | 1,140 2,586 3,726 | 1,331 2,428 3,759 |

Table 15.- New Orleans: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| Source of | supply : | 19/6″1 / °1 | 947 1/: | 1948 | 949 <u>1</u> /:1 | 950 1/1 | 1951 | 1952 |
|--------------------------------------|----------|--------------------|------------------|------------------|----------------------------------------------|----------------------|------------------------|------------------|
| and type of | carrier | Gars | Cars | Cars | Cars | Cars | Cars | Cars |
| Colorado Rail Truck Total | | 317 10 327 | 306 17 323 | 112 33 145 | 140 92 232 | 92 117 209 | 40 136 176 | 101 96 197 |
| Louisiana Rail Truck Total | No. | 103 219 322 | 120 120 | .88 .88 | ang dap para ana mag-ma wat ang pina . | | | er en en |
| Idaho Rail Truck Total | | 311 1 312 | 290 290 | 314. 314 | 427 1 428 | 487 6 493 | 574 2 576 | 501 1 502 |
| Nebraska Rail Truck Total | | 111 1 112 | 139 2 141 | 161 161 | 148 29 177 | 189 : 38 : 227 | 184 67 251 | 119 60 179 |
| California Rail Truck Total | | 107 | 252 252 | 265 265 | 414 3 417 | 305 305 | 323 323 | 388 8 396 |
| Alabama Rail Truck Total | | 79 5 84 | 16 38 54 | 9 38 47 | 42 42 | 62 62 | 83 83 | 1 47 48 |
| Wisconsin Rail Truck Total | | 60 1 61 | 80 | 137 5 142 | 118 8 126 | 41 14 55 | 68 32 100 | 38 9 47 |
| New York Rail Truck Total | | • | 132 132 | 52 2 54 | 20 11 31 | 111 40 151 | 118 29 147 | 27 21 48 |
| | | | | | | | Con | tinued |

Table 15.- New Orleans: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | . , | | | | | معددا <u>سا شدن</u> ما را ا | Marianana terrapa | |
|----------------------------------------|--------------------------|------------------|----------------------------|-----------------------|-------------------|--------------------------------|-----------------------|-------------------------------|
| Source of supp and type of carr | ier | 1946 1/ | 1947 1/ | 1948 | 1949 <u>1</u> / 1 | .950 <u>1</u> / | 1951 | 1952 |
| | 1 | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Florida Rail Truck Total | 112 113 113 113 | 27 3 30 | 6 · · · 5 · · · · 11 · · · | 29 8 37 | 19 25 44 | 7 17 24 | 25 | 65 31 465 465 466 |
| Texas Rail Truck Total | | 29 1 30 | 74 2 76 | | 8 | 25 22 47 | 19 41 | 51 52 |
| North Dakota Rail Truck Total | | <u>30</u> 30 | 46 46 | 99 1 1 100 | 43 6 49 | 28 | 17 | 29 29 29 |
| Minnesota Rail Truck Total | | 25 25 | 83 83 | 199 10 209 | 82 7 7 89 | 11 - 53 | | 44 7 51 |
| Washington Rail Truck Total | | 18 | 75 75 | 43 | 46 46 | : 63 | 113 | 124 |
| Maine Rail Truck Total | | 17 17 | 11 | 31 1 32 | 3 | 6 3 9 | 48 | . 8 |
| Other Rail Truck Total | | 141 .3 144 | 83 10 93 | 97 18 115 | 215 40 255 | 88 88 176 | 69 74 143 · : | 41 42 83 |
| Total Rail Truck Grand total | | | 194 | 1,628 210 1,838 | 272 | 1,484 418 1,902 | 1,638 512 2,150 | 415 |

^{1/} Boat receipts included in rail.

Table 16.- Cleveland: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| Source of supply: | 1946 | 1947 | 1948 | 1949 | 1950 | 1951: | 1952 |
|-----------------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|------------------|
| and type of carrier: | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Maine Rail | 1,120 | 1,143 | 1,044 | 725 | 752 | 742 | 1,079 |
| Truck : Total : | 1,120 | 1,143 | 1,044 | 734 : | 31 783 | 746 | 2 |
| California : Rail : Truck : | 727 | 824 | 947 | 1,039 | 912 | 730 | 803 |
| Total | 727 | 824 | 947 | 1,039 | 912 | 730 | 803 |
| New York Rail Truck Total | 304 116 420 | 278 149 427 | 66 260 326 | 4 316 320 | 14 351 365 | 9 347 356 | 12 398 410 |
| Idaho Rail Truck Total | 410 | 396 396 | 373 | 442 442 | 523 523 | 665 | 683 1 684 |
| Florida Rail Truck Total | 231 231 | 85 85 | 184 184 | 234 3 237 | 204 15 219 | 242 5 247 | 216 8 224 |
| New Jersey Rail Truck Total | 40 153 193 | 17 73 90 | 32 32 | 49 49 | 6 34 40 | 68 68 | 28 28 |
| Ohio Rail Truck Total | 190 190 | 2 140 142 | 288 288 | 7 1,20 1,27 | 7 298 305 | 244 244 | 179 179 |
| Washington Rail Truck | 183 | 280 | 103 | 207 | 148 | 150 | 118 |
| Total | 183 | 280 | 103 | 207 | 148 | 150 | 118 |

Table 16.- Cleveland: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | | enementaria en establismandore | | a restrikje spijanem s silve englankes manema | | - | |
|------------------------------------------|---------------------|--------------------------------|----------------|-----------------------------------------------|----------------|----------------|-----------------|
| Source of suppl and type of carri | y er: 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| | : Cars | Cars | Cars | Cars. | Cars | Cars | Cars |
| Virginia Rail Truck Total | 116 116 | 75 1 76 | 40 7 47 | 52 14 66 | 75 23 98 | 53 12 65 | |
| Alabama Rail Truck Total | 114 | 74 | 64 1 65 | 36 36 | 58 58 58 | 87 87 | 58 1 59 |
| North Carolina Rail Truck Total | 79 | 140 140 | 62 | 51 23 74 | 20 5 25 | 33 4 37 | |
| Texas Rail Truck Total | 76 76 | 67 67 | 52 52 | 29 | 45 | 38 | 29 ——— 29 |
| South Carolina Rail Truck Total | 60 | 26 26 | 18 | 16 1 17 | 29 2 31 | 47 10 57 | 47 7 54 |
| Pennsylvania | • | | and the second | and the second | : ,, | 1 1 10 | |
| Rail Truck Total | : 4 : 37 : 41 | 50 50 | 2 48 50 | 65 65 | 56 56 | 81 81 | 111 |
| Nebraska Rail Truck | 40 | 39 | 35 | 52 | 56 | 130 | 84 |
| Total | : 40 | 3 9 | 35 | 52 | 56 | 130 | 84 |
| Oregon Rail Truck | 30 | 3 5 | 27 | 31 | 43 | 45 | 89 |
| Total | : 30 | 35 | 27 | 31 | 43 | 45 | 89 |
| | | | | | | Car | timed |

Table 16.- Cleveland: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | | | - | | | - | | |
|-----------------------|-----|--------------|--------------|-------------------|----------------|-------------------|--------------------------------|-----------------------|
| Source of and type of | | | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| | | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Arizona | | | | | | , | | |
| Rail Truck | | 30 | 43 | 50 | 25 | 54 | 41 | 50 |
| Total | - | 30 | 43 | 50 | 25 | 54 | 41 | 50 |
| Minnesota | | | | | | | | |
| Rail Truck | | 24 | 11 | 3 | 26 | 19 | 20 | 31 |
| Total | | 24 | 11 | 3 | 26 | 19 | 20 | 31 |
| North Dakota | 3 | | | | | , | | |
| Rail | | 19 | 21 | 20 | 54 | : 46 | 54 | 55 |
| Truck Total | | 19 | 21 | 20 | 54 | 46 | 54 | 55 |
| Other | | | | | | | | : |
| Rail | | 270 | 131 | 66 | 63 | 71 | 77 | 107 |
| Truck Total | | 21 291 | 14 145 | 48 11 4 | 132 195 | 62 1 33 | 60 . 137 | 47 154 |
| Total | | | | | | | | |
| Rail | | 3,877 | 3,687 | 3,161 | 3,093 | 3,082 | 3,163 | 3,496 |
| Truck Grand to | tal | 517 4,394 | 427 4,114 | 679° 3,840 | 1,032 4,125 | 877 3,959 | 8 3 5 3 , 998 | 816 4 ,3 12 |
| | | | | | | | | |

Table 17.- Chicago: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| | rakina) - manadangan manadana | and the second | | | | | |
|--------------------------------------|-------------------------------|----------------|--------------------|--------|-------------|-------|--------------|
| Source of supply and type of carrier | | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Idaho | : | | | : | | | |
| Rail : | 4,182 | 3,446 | 3,733 | 4,050 | 3,602 | 3,799 | 3,465 |
| Truck Total | 4,182 | 2 116 | 2 722 | 1 050 | 3,602 | 2 203 | 3,465 |
| 100at | 4,102 | 3,446 | 3,733 _f | 4,050 | 5,002 | 3,803 | 2,407 |
| California | | 0.000 | 2 000 | 0 000 | 0 / 1 5 | 2 202 | 1 000 |
| Rail Truck | 2,032 | 2,223 | 3,028 | 2,757 | 2,645 | 2,393 | 1,907 2 |
| Total | 2,032 | 2,223 | 3,028 | 2,757 | 2,645 | 2,393 | 1,909 |
| Colorado | | | | : | | | |
| Rail | 1,963 | | 1,907 | 1,932 | 1,481 | 820 | 994 |
| Truck Total | 1,964 | 1,976 | 1,908 | 1,934 | 1,481 | 821 | 4 998 |
| : | | -,,,, | , // | -9/24 | y , | | 7/3 |
| North Dakota Rail | 1,792 | 1,546 | 1,984 | 1,743 | 1,834 | 2,255 | 2,494 |
| Truck | | | AND DATE THAT | - | 2 | 15 | 2 |
| Total | 1,792 | 1,546 | 1,984 | 1,743 | 1,836 | 2,270 | 2,496 |
| Nebraska | | | | | | | |
| Rail Truck | 939 | 893 | 572 | 427 | 461 1 | 272 | 145 1 |
| Total | 939 | 893 | 572 | 427 | 462 | 273 | 146 |
| Minnesota | | | ·. | | į f | 23 | |
| Rail | 866 | 1,142 | 1,380 | 1.013 | 1,179 | 1.714 | 1,220 |
| Truck Total | 866 | 7 710 | | | | 11 | 1 |
| TOVAL | 600 | 1,142 | 1,380 | 1,013 | 1,179 | 1,725 | 1,221 |
| Wisconsin Rail | | 07.0 | 7.01/ | 7 07 0 | 7 277 | 7 5/0 | 7 000 |
| Truck | 824 | 919 | 1,046 13 | 1,317 | 1,517 · 26 | 456 | 1,038 231 |
| Total | 831 | 920 | 1,059 | 1,324 | 1,543 | 2,025 | 1,269 |
| Washington | | | | | | | |
| Rail | 709 | 1,485 | 517 | 1,095 | 1,060 | 917 | 840 |
| Truck Total | 709 | 1,485 | 51.7 | 1,095 | 1,060 | 917 | 840 |
| | | | 7-1 | -,0/) | | | |
| | | | • | | | | Continued |

Table 17.- Chicago: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| Source of supply and type of carrier: | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 1952 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|-----------------------------|------------|--------------------|
| | Cars | Cars | Cars | Cars | Cars | Cars Cars |
| Alabama | | | | | | |
| Rail | 451 | 451 | 412 | 43 8 | 407 | 505 386 |
| Truck | 2 - | 1 | .3 | 43 | 66 | 31 46 |
| Total | 453 | 451 | 415 | 481 | 473 | 536 432 |
| Texas | | *, *, | year to, | (영화) 10 (10 년) 10 (10 년) | | • • • |
| Rail | 442 | 403 | 365 | 288 | 331 | 329 267 |
| Truck Total | 442 | 403 | 365 | 289 | 1 332 | 329 267 |
| The state of the s | | 4,00 | ₹ | | <i>کرر</i> |) |
| Florida : | 202 | 53 0 | 041 | | 300 | 210 150 |
| Truck | 293 | 510 | 274 | 419 10 | 382 14 | 348 458 19 18 |
| Total : | 293 | 510 | 277 | 429 | 396 | 367 476 |
| Overen | | , : | | | | age of the desired |
| Oregon Rail | 253. | 383 | 374 | 375 | 261 | 345 295 |
| Truck: | | | | | | |
| Total | 253 | 383 | 374 | 375 | 261 | 345 295 |
| Arizona | . (0) | : | • | | | |
| Rail : | 193 | 321 | 406 | 296 | 299 | 162 248 |
| Truck : | 193 | 321 | 406 | 296 | 299 | 162 248 |
| · | | عدمة ال | , 400 | 290 | 277 | 102 240 |
| Louisiana : | 2// | 0.4 | 00 | 1 | | |
| Rail : | 166 | 24 | 22 · 1 | 13 | 59 1 | 11 5 4 |
| Total : | 166 | 214 | 23 | 13 - | 60 | 11 9 |
| Michigan | | $t = t_0$ | | | | |
| Rail | 83 | 173 | 92 | 138 | 179 | 234 7 45 |
| Truck : | 19 | 27 | 44 | 67 | 52 | 180 100 |
| Total | 102 | 200 | 136 | 205 | 231 | 414 145 |
| Indiana | | | | : | | |
| Rail: | .39° | 1 | | | 7 . | 5 |
| Truck : Total : | 39 41 | 12 13 | · · · · 9 | 13 · 13 · | 30 37 | 81 29 |
| TOOKL | 47 | | 9 | ٠ رـــ | 37 | £6 29 |
| And the second s | 7 | | | | - 1 | Continued |

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Table 17.- Chicago: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | | | | E Carridgester a repeated states | manuschina ermijakumin | no response sufficiently law one way | Фетеринетный отнава мартит в группавай мога |
|--------------------------------------|--------|--------------------|------------------|----------------------------------|------------------------|--------------------------------------|---------------------------------------------|
| Source of supply and type of carrier | | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| and type of carrier | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| | | 40.000 | - | | and distribution | | |
| North Carolina | • | | | | ٤, | | |
| Rail | 34 | 48 | 36 | 75 | 17 | 41+ | 23 |
| Truck | | despi desse a sere | | To a fee feet day and the | 3 | | ing dan san |
| Total | 34 | 48 | 36 | 75 | 20 | 44 | 23 |
| South Carolina | | | , | | , . | | |
| Rail | 31 | 32 | anno ettip eller | 6 | 41 | 59 | 9 |
| Truck | | ****** | | 6 2 | | | · í |
| Total | 31 | 32 | *** *** *** | 8 | 41 | 59 | 10 |
| : | | | | | | | 3 |
| Other | | | | | | • | |
| Rail | 880 | 1,092 | 1,110 | | 771 | 355 | 312 |
| Truck Total | 880 | 1,092 | 1,110 | 500 | 14 | 11, 3 69 | 312 |
| 10021 | 900 | 1,072 | T , T T () | 500 | 785 | 3 08 | 212 |
| Total | | | | | : | | |
| · · | 16,135 | 17,067 | 17,258 | 16,881 | 16,533 | 16,136 | 14,151 |
| Truck | 68 | 41 | 74 | 146 | 21.0 | 813 | 439 |
| Grand total | 16,203 | 17,108 | 17,332 | 17,027 | 16,743 | 16,949 | 14,590 |
| | | | | | | | 7' |

Table 18.- St. Louis: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| | de a grantoj religion reli | | Maritin areas secundar style style | | Special Control Contro | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|
| Source of supply and type of carrier | | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| and type of carrier | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| T | | | | | | | |
| Idaho Rail | 1,059 | 1,183 | 911 | 1,289 | 1,143 | 1,303 | 1,098 |
| Truck Total | 1,059 | 1,183 | 1 912 | 1,289 | 1,143 | 1,303 | 1,098 |
| Nebraska | | 3 A | | | | | |
| Rail Truck | 8 3 8 | 1,044 | 1,077 | 1,015 | 973 33 | 1,115 | 881 14 |
| Total | 838 | 1,045 | 1,077 | 1,019 | 1,006 | 1,161 | 895 |
| California | | | | | | | |
| Rail : | 448 | 658 | 628 | 832 | 692 | 442 | 513 |
| Truck : | 448 | 658 | 628 | 833 | 1 69 3 | 442 | 513 |
| • | apap O | 0,0 | 0.20 | ©) | 0,0 | 444~ | 7-7 |
| North Dakota : Rail : | 349 | 410 | 423 | 373 | 279 | 189 | 457 |
| Truck | | ran 446 gan | 4~J | 1 | 3 | 1 | 3 |
| Total | 349 | 410 | 423 | 374 | 282 | 190 | 460 |
| Alabama | | | | | | | |
| Rail : Truck : | 280 | 309 | 255 | 222 | 301 | 405 | 244 |
| Total : | 33 313 | 17 326 | 25 280 | 67 289 | 65 366 | 73 478 | 75 31.9 |
| Colorado | | | | | - | | |
| Rail : | 263 | 375 | 205 | 410 | 413 | 344 | 421 |
| Truck : | - | | | 6 | | | 2 |
| Total : | 263 | 375 | 205 | 416 | 413 | 344 | 423 |
| Minnesota : | 0.50 | 01.0 | ~ ~ 1 | /2 ~ | ~~~ | | -/-0 |
| Rail : Truck : | 250 | 348 5 | 554 1 | 615 5 | 570 2 | 400 2 | 569 |
| Total : | 250 | 353 | 555 | 620 | 57 ² | 402 | 569 |
| Oregon | | | | | | | |
| Rail : | 125 | 111 | 109 | 113 | 92 | 110 | 126 |
| Truck : Total : | 125 | 111 | 109 | 113 | 92 | 110 | 126 |
| wyladan syantan amanapatan saya tanapaga — Adala satu kappan satu kapan | | | | ~ | | | |

Table 18.- St. Louis: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| | | | | - | | | |
|-----------------------------------------------------------|---------|----------------------|------------|---------|---------|----------------|----------------------------|
| Source of supply and type of carrier | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| d a minimaler manifestant changes agreement respectively. | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| Texas | | | | | · • | | |
| Rail | 114 | 88 | 116 | 58 | 108 | 159 | 164 |
| Truck | 4 | gap maja asas (3% 4) | 2 | 2 | 6 | 2 | |
| Total | 118 | 88 | 118 | 60 ' | 114 | 161 | 164 |
| Washington | | | | | • | | |
| Rail | 104 | 141 | 57 | 194 | 205 | 138 | 252 |
| Truck Total | 104 | 141 | 57 | 194 | 205 | 138 | 252 |
| | | | | / | ~0) | | . ~,~ |
| Arkansas Rail | 25 | 35 | 47 | 24 | 15 | | 2 |
| Truck | 67 | 97 | 7 9 | 82 | 75 | 56 | 44 |
| Total | 92 | 132 | 126 | 106 | 90 | 56 | 46 |
| Louisiana | | | | | | ., | age was to the contract of |
| Rail: | 61 | 33 | . 9 | 8 | 55 | 26 | 4 |
| Truck | 28 | 11 | 9 | 3 | 1 | | 1 |
| Total | 89 | 44 | 18 | 11 | 56 | 26 | 5 |
| Florida | | | | | | | |
| Rail Truck | 44 | 31 2 | 45 | 62 | 34 | 7 9 | 151 |
| Total | 45 | 33 | 1 46 | 4 66 | 3 37 | 3 82 | 6 1 57 |
| 7.74 | | | .,, | | , | | -21 |
| Wisconsin Rail | 41 | 118 | 164 | 219 | 374 | 496 | 368 |
| Truck | 4- | 13 | 2 | ~=== | 6 | 20 | 10 |
| Total | 41 | 131 | 166 | 219 | 380 | 516 | 37 8 |
| Missouri | | | | | | | |
| Rail | 11 | 27 | 47 | 18 | 84 | 2 | 14 |
| Truck Total | 1 12 | 27 | 4 51 | 17 | 10 | 9 11 | 14 3 17 |
| TOOUT | IZ | 21 | ЭT | 35 | 94 | 7.7 | Τ/ |
| Maine | 20 | 2. | 2 ~~ | 2 4 | 00 | 79 m | |
| Rail Truck | 12 | 14 | 177 | 18 1 | 32 | 18 | 57 |
| Total | 12 | 14 | 177 | 19 | 32 | 18 | 57 |
| | | | - | - | | Car | |

Table 18.- St. Louis: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52 - Continued

| Source of supply and type of carrier | | 1947 Cars | 1948 Cars | 1949 <u>Cars</u> | 1950 Cars | 1951 <u>Cars</u> | 1952 Cars |
|--------------------------------------|-----------------|--------------|--------------|---------------------|--------------|---------------------|--------------|
| Nearby truck Rail Truck Total | 84 | 76 | 39 | 98 | \$0 | 60 | 10 |
| | 81 ₁ | 76 | 39 | 98 | 80 | 60 | 10 |
| Other Rail Truck Total | 257 | 247 | 3 31 | 272 | 414 | 443 | 275 |
| | 9 | 5 | 94 | 39 | 129 | 96 | 17 |
| | 266 | 252 | 425 | 311 | 543 | 539 | 292 |
| Total Rail Truck Grand total | 4,281 | 5,172 | 5,155 | 5,742 | 5,784 | 5,669 | 5,596 |
| | 227 | 227 | 257 | 330 | 414 | 368 | 185 |
| | 4,508 | 5,399 | 5,412 | 6,072 | 6,198 | 6,037 | 5,781 |

Table 19.- San Francisco: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| | | | p - 1 | | ; | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|----------------------------------|-------------------------|
| Source of supply and type of carrie | r 1946 <u>1</u> / | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
| and the state of t | : Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| California Rail Truck Total | 1,064 819 1,883 | 1,094 883 1,977 | | 1,016 798 1,814 | 765 779 1,544 | 912 745 1,657 | 598 826 1,424 |
| Oregon Rail Truck Total | 1,165 67 1,232 | 892 59 951 | 749 35 784 | 817 93 910 | 846 122 968 | 916 208 1,124 | 842 131 973 |
| Idaho Rail Truck Total | 197 15 212 | 163 12 175 | 259 8 267 | 156 8 164 | 65 19 84 | 54 48 102 | 67 59 126 |
| Nevada Rail Truck Total | 75 4 79 | 77 | 39 1 40 | 22 | 58 2 60 | 46 7 53 | 16 16 |
| Florida Rail Truck Total | 61 | 27 | 24 | 23 23 | 16 1 17 | - 7 - 7 | 13 13 |
| Washington Rail Truck Total | 16 | 112 112 | 23 2 25 | 22 66 88 | 26 91 117 | 8 8 3 91 | 3 80 83 |
| Other Rail Truck Total | 74 3 77 | 42 | 84 2 86 | 18 11 29 | 5 12 17 | 9 3 12 | 73 6 79 |
| Total Rail Truck Grand total | 2,652 908 3,560 | 2,407 954 3,361 | 2,220 1,071 3,291 | 2,074 976 3,050 | 1,781 1,026 2,807 | 1,952 1,094 3,046 | 1,612 1,102 2,714 |

^{1/} Boat receipts included in rail.

Table 20.- Los Angeles: Unloads of potatoes, by source of supply, and by type of carrier, 1946-52

| Source of and type of | | | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
|--------------------------------------|-----|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| | | Cars | Cars | Cars | Cars | Cars | Cars | Cars |
| California Rail Truck Total | | 1,402 6,793 8,195 | 1,196 7,301 8,497 | 1,153 7,964 9,117 | 962 8,934 9,896 | 1,099 8,577 9,676 | 1,312 8,767 10,079 | 1,452 7,388 8,840 |
| Idaho Rail Truck Total | * | 2,528 25 2,553 | 1,958 126 2,084 | 2,336 104 2,440 | 2,657 429 3,086 | 1,477 1,148 2,625 | 2,332 730 3,062 | 2,899 662 3,561 |
| Utah Rail Truck Total | | 653 41 694 | 549 62 611 | 359 119 478 | 483 163 646 | 342 335 677 | 282 534 816 | 95 207 302 |
| Oregon Rail Truck Total | | 353 353 | 294 6 300 | 235 235 | 392 26 418 | 817 73 890 | 702 98 800 | 875 40 915 |
| Other Rail Truck Total | | 192 15 207 | 114 18 132 | 189 10 199 | 77 35 112 | 93 25 118 | 53 84 137 | 192 177 369 |
| Total Rail Truck Grand to | tal | 5,128 6,874 12,002 | 4,111 7,513 11,624 | 4,272 8,197 12,469 | 4,571 9,587 14,158 | 3,829 10,158 13,987 | 4,681 10,213 14,894 | 5,513 8,474 13,987 |

Table 21.- Index numbers of unloads of potatoes, 9 selected markets, 1946-52 1/

| Consideration of Consideration | | - | | (1946 = | 100) | | 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------|---------|-------------|-------------|--------|
| Market | 1946 | 1947 | : 1948 : | 1949 | : : 1950 | . 1951 : | : 1952 |
| <u>'</u> | : 100 | 97 | 88 : | 81 | 88 | 92 | 93 |
| | 100 | 102 | 107 | 106 | 110 | 95 | 92 |
| | 100 | 107 | 124 | 140 | 144 | 151 | 153 |
| New Orleans | 100 | 107 | 110 | 119 | 114 | 129 | 116 |
| Cleveland | 100 | 94 | 87 | 94 | 90 | 91 | 98 |
| Chicago | 100 | 106 | 107 | 105 | 103 | 105 | 90 |
| St. Louis. | 100 | 120 | 120 | 135 | 137 | 134 | 128 |
| San Francisco | 100 | . 94 | 92 | 86 | . 79 | 86 . | 76 |
| Los Angeles | 100 | 97 | .104 | 118 | 117 | 124 | 117 |

^{1/} Includes rail, boat, and truck unloads.

Basic data were derived from reports issued by the Production and Marketing Administration.

Table 22.- Average wholesale price per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946-53

| | Boston | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Source of supply | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 1/ |
| | Dollars | Dollars 1 | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars |
| Maine New York California Virginia Florida North Carolina Idaho Washington Massachusetts | 2.79 2.54 4.36 3.05 4.99 2.94 4.13 4.15 | 2.91 2.96 4.85 3.70 4.66 3.96 4.56 4.42 2.90 | 3.44 3.15 5.08 3.90 5.67 4.11 4.31 4.92 3.40 | 3.28 3.24 4.84 3.62 5.76 3.98 4.92 4.55 2.21 | 2.29 1.78 4.19 2.67 4.56 2.97 3.91 4.50 1.47 | 2.73 2.45 4.73 1.99 4.66 3.51 5.22 4.56 3.20 | 4.48 5.24 7.40 6.05 6.05 5.75 5.99 7.04 4.10 | 2.31 3.71 2.90 4.40 2.89 5.72 |
| | | | | New Y | ork City | 7 | | |
| New York (L.I.) Maine California Florida Idaho Virginia North Carolina South Carolina Washington New Jersey | 3.24 4.22 4.91 3.94 2.79 2.85 2.98 4.26 | 2.91 3.13 4.85 4.56 4.59 3.45 3.90 4.58 4.71 2.70 | 3.05 3.81 5.33 6.47 5.24 3.42 3.76 4.36 4.60 2.85 | 2.97 3.70 4.96 5.69 5.08 3.12 3.39 5.13 4.74 2.77 | 1.68 2.79 4.19 4.53 4.45 2.40 3.66 | 2.58 2.72 4.85 4.37 4.66 2.35 3.33 4.09 4.47 1.62 | 4.79 4.73 7.08 6.16 6.31 6.30 6.03 5.12 7.00 | 3.22 2.76 4.09 4.47 6.08 2.46 2.67 3.28 |
| | | | | Atl | anta | | · | |
| Maine Florida Idaho New Jersey Georgia Alabama MinnN. Dak. New York California Tennessee South Carolina: Wisconsin North Carolina: Colorado Washington Pennsylvania | 5,12 5,44 2,92 3,05 3,54 3,36 3,77 5,27 2,92 3,78 3,00 4,81 | 3.53 5.21 4.35 3.31 3.49 3.86 3.47 3.37 4.82 3.29 3.71 3.66 3.51 3.65 4.79 3.76 | 3.77 5.56 3.93 3.52 3.56 4.05 3.83 2.92 4.39 3.87 4.01 3.68 3.66 4.17 3.49 | 4.36 5.46 4.93 3.23 3.78 3.98 4.85 4.84 3.06 4.52 3.41 4.45 3.21 | 3.41 4.46 4.23 2.46 2.76 3.16 3.27 2.51 4.13 2.92 3.22 2.59 4.37 2.70 | 4.45 5.11 4.61 3.31 3.02 3.21 4.75 3.26 4.92 3.77 3.43 3.86 2.89 4.67 3.51 | 5.24 5.68 6.23 5.58 5.71 5.71 6.78 5.71 5.74 5.78 5.79 5.79 5.79 5.79 5.79 5.79 | 3.53 4.12 5.71 3.36 2.64 2.84 5.26 3.61 4.10 3.00 2.32 3.50 2.68 |
| | | | * ************************************* | | | | Contin | ued |

Table 22.- Average wholesale price per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946-53 - Continued

| | New Orleans | | | | | | | |
|-------------------------|--------------|----------------|---------------|--------------|----------------|--------------|--------------|---------------------------------------------------------------------------------------------------------------|
| Source of supply | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 1/ |
| | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars |
| Colorado | 3,33 | 3.48 | 4.23 | 3.86 | 3.35 | 3.71 | 5.61 | 4.47 |
| Louisiana | 2.62 | 3.03 | 3.93 | | | | | |
| Idaho | 3,89 | 4:39 | 5.00 | 4-86 | 4.06 | 4.42 | 6.16 | 5.71 |
| Nebraska | 3.53 | 4.02 | 4.30 | 4.50 | 3.56 | 4.19 | 5.76 | 4.64 |
| California : | 3.96 3.18 | 4,65 3,87 | 4.73° 4.04 | 4.38 4.67 | 3.97 3.50 | 4.31 3.17 | 6.87 5.63 | 4.26 2.83 |
| Wisconsin | 3.10 | 3.67 | 3.74 | 3.53 | 2,79 | 4.10 | | 4.85 |
| New York | 3.42 | 4.04 | J014 | | 2.96 | 3.72 | 5.66 | 4.00 |
| Florida | 6.32 | 6.58 | 6.59 | 6,18 | 4.93 | 6.11 | 6.16 | 4.74 |
| Texas | 3,81 | 4.60 | 4.67 | 4,13 | 4.24 | 4.45 | 5.85 | و الماسية الم |
| MinnN. Dak. | 3.17 | 3.87 | 3-90 | 3.80 | 3.18 | 4.36 | 5.53 | 3,40 |
| Washington | 4,26 | 4.37 | 4.47 | 4.15 | 4.19 | 3.82 | 6.02 | 5 20 |
| Maine | 2,96 | 3.06 | 4.93 | | 3.22 | 5.08 | 5.76 | 3.75 |
| | | | | Clev | eland | | | |
| | 1, | 15° 7 | | | O I COLO | | | |
| Maine | 3.36 | 3.43. | 4.15 | 3.85 | 3,12 | 3.46 | 5,17 | 3.34 |
| California | 4.34 | 4.69 : | 4.96 | 4.70 | 4.02 | 4.61 | 6.83 | 3.98 |
| New York | 2.55 | | 3.40. | 3.32 | 2.20 | 2.86 | 5.10 | 2.98 |
| Idaho | | 4.37 | 4.92 | 4.84 | | 4,55 | | 5.82 |
| Florida | 5.27 | 4.96 | 7.04 | 5.66 | 4.88 | 5.78 | 6.41 | 4.59 |
| New Jersey Washington | 2.65 3.92 | 3.10. 4.54 | 3.43 4.42 | 3.15 4.43 | 2.19 | 2.61 4.75 | 5,70 6,91 | 757 |
| Virginia | | 3.70 | 3.85 | 3,50 | | 3.27 | 6,18 | 3.15 |
| Alabama | / 0 | 4.42 | 5.10 | 5.46 | | | - 5,99 | 3.89 |
| North Carolina | | 3.76 | 4,01 | 3.82 | 2,92 | 3,52 | 5.75 | 300 |
| Texas | 5.17 | 5.78 | 8.09 | 6.01 | 4.98 | 4.73 | 6.79 | |
| South Carolina | 3.54 | | 4.51. | | 4.30 | 4.26 | 6.03 | 3.30 |
| Pennsylvania : | 3.06 | | 3.41 | 2 82′ | 2,22 | | 4.70 | 3.04 |
| Nebraska | 3.20 | 4.16 | 4.27 | | 3.86 | 4.42 | 6,24 | 5.62 |
| Oregon Arizona | 4.10 | 4.43 5.21 | 5.24 | 3.90 5.13 | 3:87 4:49 | 4.32 5.12 | 4.93 | 4.32 |
| MinnN. Dak. | 2.93 | 4.07 | 3.87 | 3,91 | 3.41 | 4.45 | 5:63 | 4.27 |
| 11211111 114 20113 | 2675 | | 5.01 | بدره ر | ., 204±. | | , | 70-1 |
| | | | | Chic | ago | | | |
| * | 2.00 | 2 00 | 1 1 0 | 1 00 | ٠ - ١ | | d' /0 | ۳ ۵۵ |
| Idaho : | 3.28 | | 4,45 | 4.38 | . 3.54 3.67 | 4.41 4.41 | 5.60 | 5.03 3.23 |
| California : Colorado : | 3.62 2.95 | , 4.43 3.63 | 4.71 | 4.43 | 3,01 | 3,54 | 4.89 | 3,96 |
| Minn,-N. Dak. | | 3,00 | 3.31 | 3,26 | 2,52 | 3.25 | 4:09 | 3,19 |
| Nebraska | 2:89 | 3,26 | 3.89 | 3,61 | 2.82 | 2,83 | 6.32 | 4.62 |
| Wisconsin | | 2,68 | 2.72 | 2,46 | 1:86 | 2.81 | 4.42 | 2,86 |
| Washington : | 2 21 | 4.01 | 3.64 | 3.95 | 3.43 | 4.02 | 5.72 | |
| | | | - | | - | | | |
| | | | | | | | Cont | inued |

1.1

Table 22.- Average wholesale price per 100 pounds of potatoes, by source of supply, 9 selected markets, 1946-53 - Continued

Chicago (Contd.) Source of 1950: 1946 : 1952 1953 1/ 1947 : 1948: 1949 1951: supply Dollars Dollars Dollars Dollars Dollars Dollars Dollars 5.72 3,59 4.84 Alabama 4.28 4.06 3.76 5.77 3,50 3.36 5.85 2.80 5,56 6.01 5.95 5.64 Texas 4.70 6.94 5.53 5.46 Florida 5.80 4,88 5.77 6.02 4.68 2,92 3,90 3.81 3.42 3,65 3.60 6,23 4,10 Oregon 4.96 5.06 4.26. 6.28 3.57 Arizona 3.37 4.93 3,95 2.85 2.79 Michigan 2,10 3,28 2,82 1.94: 4.10 3 • 55 St. Louis 3,53 4.02 4.47 4.37 3.68 5.72 5.22 4.11 5-35 Idaho 3.48 4,20 4.04 3.11 3.73 3.11 4.07 Nebraska 3.87 4.62 4.72 3.72 4,18 6.81 3,57 California 4.31 Minn.-N. Dak. 2.76 3.18 3.54 3,18 2.78 3.14 4.91 3.37 3.57 4,22 4-74 5,25 4.19 5.68 3,16 4.03 Alabama 3.54 3.54 3.50 5.64 2,97 3.70 3,10 4.39 Colorado 3.68 3.15 3.58 5.55 3.67 3.87 Oregon 5.86 5.74 4.71 ,5,35 4.85 5.13 3,96 4.49 Texas 3.72 6.20 Washington 3.43 4.04 . 3.80 3.88 4.30 2.96 3.69 4.10 4.49 3.34 3.97 6.09 3.08 Arkansas 3.58 3.72 3.91 5.37 4.27 3,466 Louisiana 5.08 5.81 5.84 6.46 4.80 5.63 5.75 4.87 6.41 Florida 4.62 4,83 : 2.70 3.25 3.21 2.18 2,50 Wisconsin 2.79 2.95 2.71 4.50 Missouri 2,20 2,89 2.48 2.55 San Francisco 5.40 California 3.48 4.13 4.33 3.62 3.45 3.93 3.75 3.40 3,86 4.42 4,20 3.28 3.81 4:90 4.75 Oregon 3.69 4.74 5.00 4.33 3.11 3.68 5.77 5.25 Idaho 3.52 3.85 3.28 4.82 4.50 Nevada 3.26 5,24 3.93 6.61 6.32 7,26 5.88 7.12 6,09 Florida 7.35 7,48 3 = 25 3.60 .3.45 3,26 3.77 5.84 Washington 3.89 Los Angeles 3.65 3,26 3.88 3.87 5.08 3.92 California 3,61 3 2 0 8 3,33 4.44 4.08 3.43 5,37 4.82 Idaho 3,70 3,19 3.41 4.32 3.20 3.54 4.39 3.84 3.00 4.87 Utah 3.28 5.69 4.25 3.24 4.27 5.01 4.47 4.38 Oregon

^{1/} First 6 months of 1953.



